BOSTON UNIVERSITY SCHOOL OF EDUCATION

LIBRARY

Ed.

44.31

The Gift of Miss E. G. Mc Grath

Thesis Mcgratheg. 1943

FOR REFERENCE

De Not Take From This Room



Stored Stored

BOSTON UNIVERSITY SCHOOL OF EDUCATION

Thesis

EVALUATION OF THE EDUCATIONAL GUIDANCE PROGRAM

IN THE WEEKS JUNIOR HIGH SCHOOL,

NEWTON CENTRE, MASSACHUSETIS

Submitted by

Ellen G. McGrath
(B.S., Boston University, 1926)

In partial fulfillment of requirements for the degree of Master of Education

1943

First Reader: Roy O. Billett; Professor of Education
Second Reader: J. Vendell Yeo; Assistant Professor of Education
Tira Reader: Howara L. Kingsley; Professor of Education

Selve ties 24213

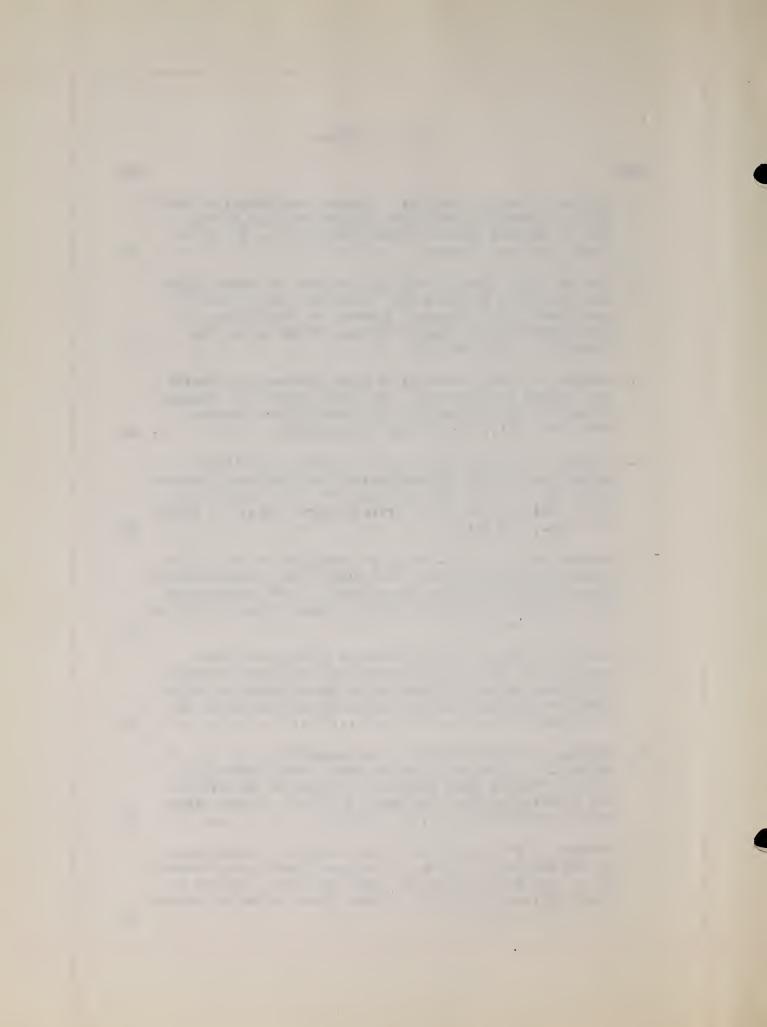
CONTENTS

| Chapte | r | Page |
|--------|--|------|
| I. | THE PURPOSE AND SCOPE OF THIS STUDY | 1 |
| II. | AN ANALYSIS OF THE ACHIEVEMENT AND PROGRESS OF 947 | |
| | JUNIOR-HIGH-SCHOOL PUPILS | 11 |
| III. | SUMMARY AND RECOMMENDATIONS | 56 |
| | BIBLIOGRAPHY | 61 |



LIST OF TABLES

| Table | age |
|---|------------|
| 1. Numbers of Pupils Promoted to Newton High School in 1938, 1939, and 1940; Numbers That Entered the High School, Went to Private Schools, Moved from City, or Failed to Enter for Other Reasons | 11 |
| 2. List of Pupils by Curricula Who Entered the Newton High School between 1938 and 1940 Inclusive, Their Intelligence Quotients, Teachers' Approval or Disapproval of Curriculum Choices, and the Average Sigma Scores for Grades IX, X, XI, and XII | 13 |
| 3. Numbers of Pupils Enrolled in Seven Curricula of Newton High School Who Remained in Original Curriculum, Changed to Another Curriculum, Left to Enter Private Schools, Moved from City, or Left for Other Reasons | 42 |
| 4. Numbers of Boys and Girls in the Language Curriculum Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII. | 44 |
| 5. Numbers of Boys and Girls in the Certificate Curriculum Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII. | 45 |
| 6. Numbers of Boys in the Mathematics Curriculum Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII. | 47 |
| 7. Numbers of Boys and Girls in the Academic I, II, III, IV Curricula, Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII | 4 8 |
| 8. Numbers of Boys and Girls in the Academic V Curriculum, Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII. | 50 |



| Tabl | .e | Page |
|------|---|------|
| 9. | Numbers of Boys in the Business Curriculum, Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII | |
| 10. | Numbers of Girls in the Office Training Curriculum, Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII. | |
| 11. | Numbers of Approved Pupils in Each Curriculum Successful in High School and Numbers Not Successful | 53 |
| 12. | Numbers of Non-Approved Pupils in Each Curriculum Successful in High School and Numbers Not Successful | |



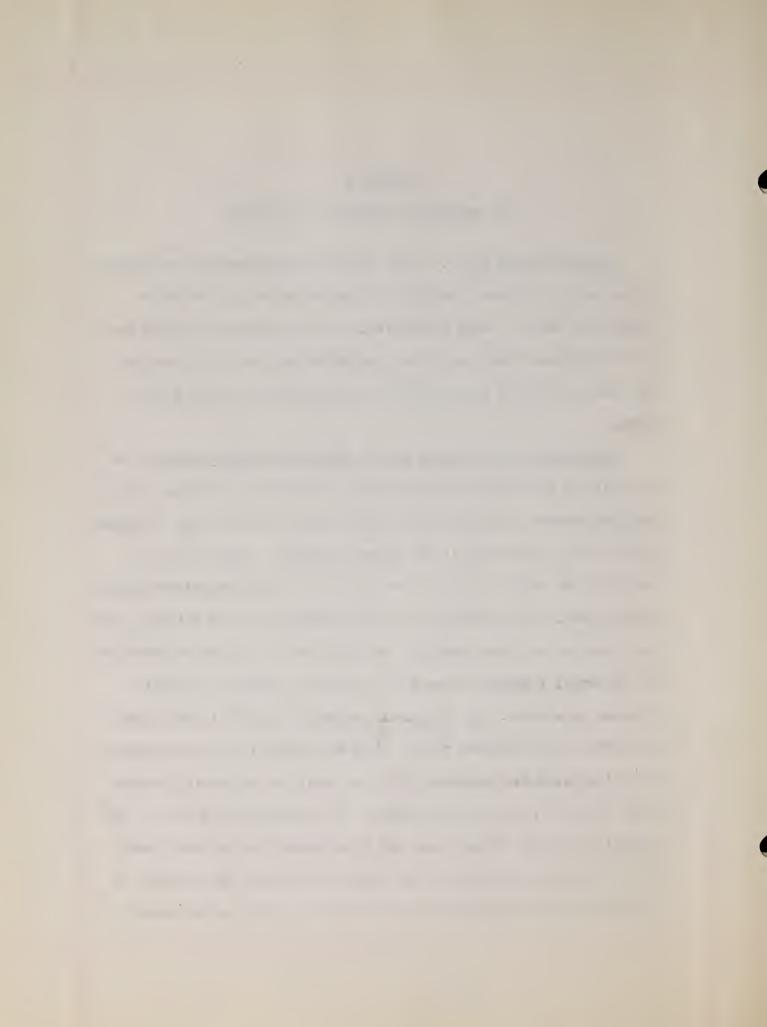
CHAPTER I

THE PURPOSE AND SCOPE OF THIS STUDY

Purpose of this study. -- This study is concerned with one aspect of the validity of the educational guidance program of the Weeks

Junior High School. More specifically, it is concerned with the success or failure of pupils in the high-school curricula selected by them and approved or disapproved by their advisers in junior high school.

Organization for guidance in the Weeks Junior High School. -- In the guidance setup of this school there are three main factors: the homeroom teacher, the classroom teacher, and the counselors. Of these three the most important is the homeroom teacher. Because of the nature of the school organization she is also a subject-matter teacher of her group, is responsible for their conduct about the building, and has charge of all data regarding her pupils which the school possesses. The homeroom, therefore, serves as a clearing house for the whole guidance department. The classroom teachers act as advisers in their particular subject-matter field. They are responsible for explaining to their pupils the content of their subject, the sequential courses which follow it, and the requirements for success in that field. The counselors consist of three men and three women, two for each grade. The women act as advisers for the girls, and the men for the boys of a particular grade during the three years the pupils are in school.



When a homeroom teacher needs help in handling a maladjusted pupil in her room, she turns to her grade counselors.

Guidance procedure in the Weeks Junior High School .-- To make the guidance objectives possible of achievement, the school is so organized that small groups of homeroom teachers, subject-matter teachers, and counselors who are dealing with the same divisions of pupils can meet at regular intervals for an exchange of experiences. To these roundtable conferences are invited the city psychologist, the visiting teacher, the school nurse, the juvenile-probation officer, and a representative from the Newton Family Service Bureau. Not only do these visitors attend practically every meeting, but they take an active part in the discussions, and have proved of great assistance to teachers and counselors in solving many of their problems. Thus a cooperative study of individual pupils is made, resulting, the teachers feel, in better pupil diagnosis and a more unified plan of treatment than if undertaken by one person alone. The reports of these studies, covering a period of three years, are sent (with the pupils) to the Newton Senior High School at the end of the ninth year.

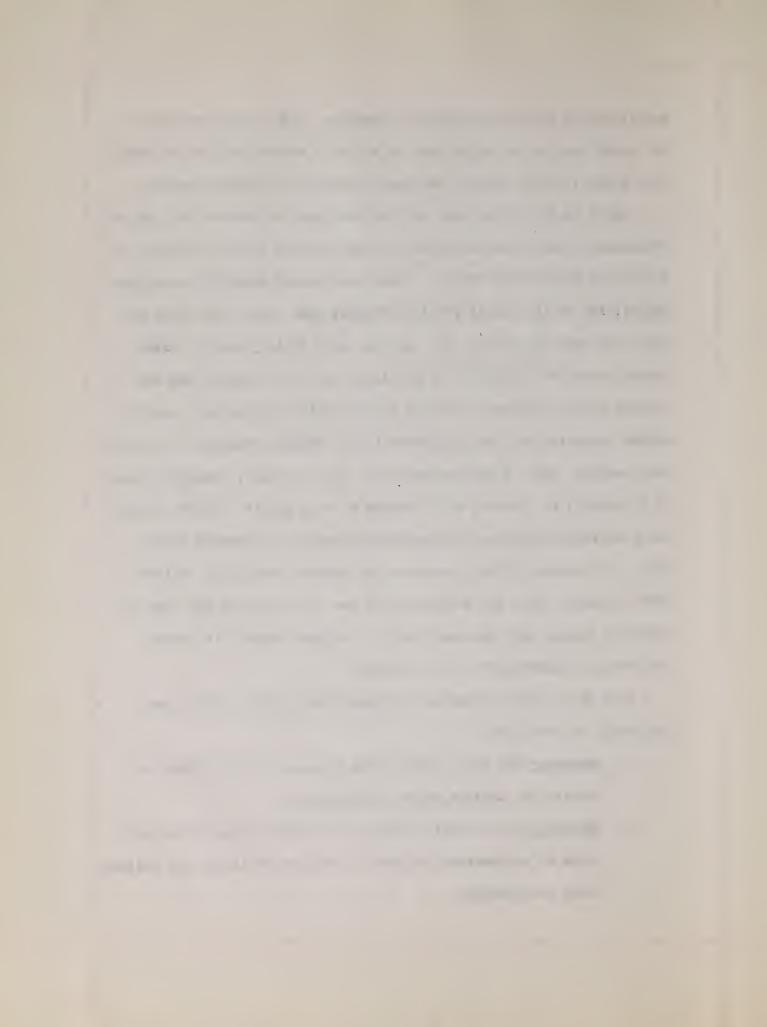
The problem with which the study is concerned. One of the problems which every child encounters during his three years in the junior high school is the choice of electives for the ensuing year. In the seventh grade this is a comparatively simple matter, his choice being limited to one subject from four offerings: art, music, practical arts, and study. At the close of the eighth grade the choice of electives is increased, for this time he is allowed to choose four subjects—

two full-time and two part-time. Therefore, when toward the end of the ninth year he is called upon to select a curriculum for the Newton High School, he has already had some experience in making choices.

Early in the spring each ninth-grade pupil is given a copy of the "Guidance Booklet," which contains an explanation of the offerings of the Newton Senior High School. These are studied carefully under the supervision of the social-studies teachers, and pupils are urged to take them home and discuss the contents with their parents. After several weeks of thoughtful preparation, the pupil chooses the curriculum which he wishes to follow in the senior high school, and it is marked "approved" or "not approved" by his subject teachers, his homeroom teacher, and, in problem cases, by his counselor. Whenever there is a question in the mind of a teacher as to a pupil's ability to follow a certain curriculum, she usually gives him the benefit of the doubt, but because of the insistence of parents that their children elect subjects which the teachers feel are too difficult for them, a number of pupils are sent each year to the high school with their registration blanks marked "not approved."

When this study was made, the Newton High School offered the following ten curricula:

- 1. <u>Language</u>—for pupils who intend to qualify for colleges requiring the College Board examinations.
- 2. <u>Mathematics</u>—for pupils who plan to enter technological colleges or engineering courses of colleges requiring the College Board examinations.



- 3. Certificate—for pupils who wish to prepare for colleges that admit by certificate.
- 4. Academic I -- for pupils who plan to enter teachers' colleges, kindergarten training schools, business colleges, and junior colleges.
- 5. Academic II -- for pupils who wish to enter hospital training schools.
- 6. Academic III -- for pupils who plan to enter schools of art.
- 7. Academic IV--for those pupils who wish to specialize in music.
- 8. Academic V--for pupils who desire a general high-school course which will prepare them for entrance to certain fields of employment not requiring specialized preparatory training.
- 9. Business--primarily for boys who intend to enter the commercial world after graduation from high school.
- 10. Office Training -- for girls who wish to become typists, stenographers, secretaries, cashiers, or office assistants.

The procedure for the solution of the problem. -- In anticipation of this study, careful records were kept in the Weeks Junior High School of the 947 pupils who were promoted to the Newton High School in 1938, 1939, and 1940. These records furnished the following information for each pupil: the intelligence quotient, the average mark for the ninth grade in all major subjects, the curriculum choice for the senior high school, and the adviser's approval or disapproval of this choice. A study of the Newton High School's records disclosed

•

these facts: the final marks in all major subjects for Grades X, XI, and XII, any changes in curricula, and reasons for leaving school before graduation.

From the above information the writer has attempted to answer the following questions:

- 1. How many of the Weeks pupils who entered the Newton High School in 1938, 1939, and 1940 succeeded in maintaining a passing mark or better in the curriculum selected in Grade IX or an equally difficult curriculum?
- 2. What was the relationship between the pupils' success and the advisers' approval or disapproval of their curriculum choices?
- 3. How did the marks received in Grade IX compare with those received in Grades X, XI, and XII?
- 4. What was the relationship, if any, between the intelligence quotients and the marks received in Grades IX, X, XI, and XII?

Obstacles encountered in the study. -- In the early stages of this study two serious obstacles appeared: (1) the differences in the marking systems of the junior and senior high schools; (2) the effect of the popularity of private schools upon the factors determining the success or failure of pupils in the Newton High School.

Concerning the first obstacle it should be said that the Newton junior high schools have a four-point marking system; namely, from highest to lowest, 1--2--3--4. The Newton Senior High School, on the other hand, uses a five-point scale; namely, from highest to lowest,



A--B--C--D--F. To compare the marks received by the same pupil in the two schools, it was necessary to reduce them to a common numerical basis. The first step in this process was to find the average mark received by the pupil in each grade. In the ninth grade, where a numerical system of marking is in use, this was a comparatively simple matter, but in Grades X, XI, and XII it was necessary to give to the letters A, B, C, D, and F the numerical values of 1, 2, 3, 4, and 5 before the average mark for each pupil could be obtained. Then the true mean and standard deviation were computed. By dividing the average mark for each pupil in a given grade by the standard deviation for that grade a sigma score was obtained for each of the 830 pupils listed in the study. Since, in this process, A was given the value of 1, the lowest of the sigma scores found on the tables in Chapter II have the highest value.

With reference to the second obstacle it should be noted that usually a pupil who withdraws from high school to enter private school does so because of his failure to maintain the standards required of his grade. This, however, is not true in Newton, for there many parents plan to give their children, irrespective of their marks, one or more years in a private school before entering college. Therefore, in determining the success or failure of such pupils in their chosen curriculum, the writer has considered as successful those whose mark at the time of withdrawal was passing or better.

^{1/}Roy O. Billett, Fundamentals of Secondary-School Teaching, Houghton Mifflin Company, Boston, 1940, pp. 632-633.



Related studies. -- Although the reports of no similar investigations could be found, the writer discovered several interesting related studies. A brief summary of three follows.

1. "Can Success in High School Be Predicted at the End of 1/Grade IX?" R. L. Herbst

This study was undertaken in 1934 by R. L. Herbst and Dr. John Skillings, assistant state superintendent in charge of secondary schools in Delaware. Its purpose was to determine to what extent the pupils enrolled in Grade IX in the Delaware High Schools, outside of Wilmington, had selected the subjects best suited to their capacities and interests.

Using as a basis of their study the results of intelligence and subject-matter tests, personal ratings, and teachers' marks, the total number of pupils in the study (1334) was divided into three groups, designated as A, B, and C. It was believed that Group A, which included 81 per cent of the total number would succeed in the subjects which they had selected; that Group B, which comprised 10.3 per cent of the entire number, would meet with difficulty because they had not selected the subjects suited to their capacities and interests; and that Group C, which included 8.7 per cent, would not be successful because the high school did not offer the subjects which they probably should take.

visited, and the educational standing and whereabouts of the pupils were investigated. Some of the conclusions reached as a result of this study were as follows:

- a. It is difficult to predict with any degree of accuracy the educational standing or whereabouts of young people four years after they enter high school.
- b. Both educational and vocational guidance must continue through high school.
- c. A further study should be made to determine the reasons for the elimination of pupils from the high school.

Despite the fact that this study did not succeed in achieving its purpose, it did show the need of a carefully planned and continuous guidance program in the Delaware schools.

2. "Determining College Ability during Junior-High-School Years," W. H. Billhartz, Jr. and P. W. Hutson

The purpose of this study was to investigate the possibility of predicting college ability during a pupil's junior-high-school life.

Pittsburgh, Pennsylvania, was selected as the city for this investigation because it had already gathered extensive data on its seventh grade pupils. From the folders of the 4316 children who comprised the study, the following records were taken: (1) junior-high-school marks in academic subjects; (2) Stanford Achievement Test percentile scores in all the major subjects; (3) intelligence quotients.

From the total number of 4316 pupils in the seventh grade, the 1/School and Society (April 26, 1941), 53: 547-552.

college records of 282 were available. A study of the latter group, five-eighths of whom had had two years of college work, showed a positive relationship between junior-high-school scholarship and college success. Moreover, a further study showed that the intelligence quotients and the percentile scores had low predictive value. Since both junior-high-school and college marks represent a combination of ability and effort, the writers of this article feel that the former appear to be a good predictor of college success.

The small number of college records on which the above conclusions are based might lead the reader to question their soundness. However, the findings are most interesting and bear out the opinion of the majority of experienced secondary-school teachers.

3. "The Intelligence and Later Scholastic Success of Sixth-Grade <u>l/</u> Pupils," Viola E. Benson

This is a report of a follow-up study of 1686 pupils in the sixth grades of Minneapolis to determine the relationship between their intelligence quotients and the grade level which each attained.

The study reveals that pupils with lower I.Q.'s drop out of school earlier than those with higher I.Q.'s. However, an analysis of individuals indicates that factors other than intelligence often affect scholastic success. The results of the study show that "IQ's obtained in the later elementary grades are not without significance in estimating the probable subsequent scholastic career."

This study, while most carefully done, adds little of value to 1/School and Society (February 7, 1942), 55: 163-167.



the wealth of material already published on the significance of the intelligence quotient.

In Chapter II the writer will present in tabular form an analysis of the achievement and progress of the 947 pupils who form the basis of this study.



CHAPTER II

AN ANALYSIS OF THE ACHIEVEMENT AND PROGRESS OF 947 JUNIOR-HIGH-SCHOOL PUPILS

As indicated in Chapter I, 947 Weeks Junior High School pupils were promoted to the Newton High School in 1938, 1939, and 1940, but 117, or 12 per cent, did not enter the latter school (Columns 4, 5, and 6, Table 1).

Table 1. Numbers of Pupils Promoted to Newton High School in 1938, 1939, and 1940; Numbers That Entered the High School, Went to Private Schools, Moved from City, or Failed to Enter for Other Reasons.

| Years | Numbers | | | | | | | |
|-------|--------------------------------------|----------------------------------|------------------------------|--------------------|---|--|--|--|
| | Promoted to Newton High School | Entered Newton High School | Entered Private School | Moved from City | Failed to Enter for Other Reasons | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | | | |
| 1938 | 302 | 267 | 14 | 13 | 8 | | | |
| 1939 | 332 | 291 | 15 | 21 | 5 | | | |
| 1940 | 313 | 272 | 13 | 20 | 8 | | | |
| Total | 947 | 830 | 42 | 54 | 21 | | | |

The large number that transferred to private schools is typical of the community, while the still greater number that moved from the city was due undoubtedly to the increase of defense work in Boston and its environs. Of the 26 pupils who failed to enter high school, two



left because of ill health, 10 entered Trade School, and 14 went to work. The total number was thus reduced to 830 pupils.

The junior high schools in Newton have no designated curricula, but the ninth-grade pupils, because of their elective choices, fall naturally into three groups: college-preparatory, business, and academic or general. To facilitate comparison between the junior and senior high schools, the 830 pupils of this study are listed under the curricula which they elected for the Newton High School.

Since the pupils in the academic curricula I, II, III, and IV are of the same type and ability, with similar objectives, they have been listed together. Although it was not so intended, academic V has developed into a sort of catchall for pupils with limited ability, and, therefore, this group has been separated from the others for study purposes.

When this investigation was made, the pupils who were promoted to the high school in 1938 and 1939 had been graduated from that school, but the class of 1940 had completed only half of its senior year. Therefore, in computing the Grade XII sigma score for this latter group, the mid-year marks were used.

In November, 1942, the Newton High School, because of war-time pressure, introduced a cooperative high-and-trade-school curriculum, whereby seniors were allowed to spend alternate weeks in each of these schools, and received in addition to their high-school diploma, a trade-school certificate. As indicated in Table 2, the Weeks pupils who availed themselves of this opportunity were members of academic V and the business curricula.



Table 2. List of Pupils by Curricula Who Entered Newton High School between 1938 and 1940 Inclusive, Their Intelligence Quotients, Teachers' Approval or Disapproval of Curriculum Choices, and the Average Sigma Score for Grades IX, X, XI, and XII.

| Language CurriculumBoys | | | | | | | | | | |
|-------------------------|--------------|-----------|-----------------------|-----|-----|--------------|-----|---|-----|--|
| | Intelligence | Curriculu | riculum Choice Averag | | | Sigma Scores | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | x | | XI | | XII | |
| 1 | 133 | x | | 2.3 | 3.8 | | 3.2 | | 3.0 | |
| 2 | 132 | x | | 1.9 | 2.6 | | 2.1 | | 3.2 | |
| 3 | 132 | x | | 4.3 | 3.4 | C | | | | |
| 4 | 131 | x | | 3.9 | 4.2 | | 3.5 | | 3.9 | |
| 5 | 130 | x | | 1.9 | 2.6 | | 2.8 | | 2.6 | |
| | | | | | | | | | | |
| 6 | 130 | x | | 3.1 | 5.0 | С | | | | |
| 7 | 130 | x | | 2.7 | 3.8 | h | 4.4 | | 3.9 | |
| 8 | 130 | x | | 3.9 | 3.0 | | 4.2 | | 3.5 | |
| 9 | 130 | x | | 3.5 | 5.3 | | 4.4 | | 4.4 | |
| 10 | 130 | I | | 3.3 | 3.8 | | 3.2 | | 3.0 | |
| 11 | 130 | x | | 3.1 | 3.4 | | 3.9 | | 3.5 | |
| 12 | 128 | x | | 3.5 | 5.3 | | 3.2 | | 3.5 | |
| 13 | 128 | x | | 4.5 | 5.7 | | 3.5 | | 4.2 | |
| 14 | 127 | x | | 1.9 | 1.9 | | 1.7 | | 2.1 | |
| 15 | 127 | x | | 1.9 | 1.9 | | 1.7 | | 2.1 | |
| 16 | 126 | x | | 3.5 | 4.4 | | 4.4 | | 3.5 | |
| 17 | 126 | x | | 1.9 | 3.4 | | 3.9 | | 2.6 | |
| 18 | 126 | x | | 2.7 | 5.0 | C | | | | |
| 19 | 125 | x | | 2.7 | 4.8 | | 4.6 | | 4.6 | |
| 20 | 125 | x | | 3.1 | 5.3 | | 4.6 | i | 3.5 | |
| 21 | 125 | x | | 4.7 | 5.0 | | 4.4 | | 1.7 | |
| 22 | 125 | x | | 3.1 | 5.0 | | 4.4 | | 3.9 | |
| 23 | 124 | x | | 3.1 | 3.4 | a | | 1 | | |
| 24 | 123 | x | | 3.1 | 3.8 | h | 3.2 | | 3.2 | |
| 25 | 123 | x | | 2.3 | 4.2 | | 4.4 | | 4.6 | |
| 26 | 123 | x | | 2.7 | 5.1 | | 4.2 | | 3.9 | |
| 27 | 123 | x | | 2.7 | 4.6 | | 3.9 | | 4.8 | |
| 28 | 123 | x | | 2.7 | 4.6 | | 4.4 | | 3.9 | |
| 29 | 123 | I | | 2.3 | 4.6 | c | | | | |
| 30 | 123 | x | | 1.9 | 3.4 | | 2.6 | | 3.0 | |

.

.

w

- 0

à

18

4

9

u

.

а

Table 2. (cont.)

| | | Langua | ge Curricu | rumRo | ys ———— | | | | |
|-------|--------------|-------------------|-----------------|-------|------------|------|-------|-----|-----|
| | Intelligence | Curriculum Choice | | AV | erage S | Sigm | a Sco | res | |
| Pupil | Quotient | Approved | Not Approved | IX | X | | XI | | XII |
| 31 | 122 | x | | 2.3 | 5.7 | | 3.5 | | 5.0 |
| 32 | 122 | x | | 4.7 | 4.2 | a | | 1 | |
| 33 | 121 | x | | 3.9 | 5.3 | | 5.3 | | 5.7 |
| 34 | 121 | x | | 3.5 | 3.8 | | 3.5 | | 3.5 |
| 35 | 121 | x | | 4.7 | 5.7 | | 5.3 | | 4.8 |
| 36 | 121 | x | | 3.5 | 4.6 | | 3.5 | | 3.5 |
| 37 | 120 | | x | 4.7 | 6.1 | | 6.2 | c | |
| 38 | 120 | x | | 4.7 | 4.2 | c | | | |
| 39 | 120 | x | | 3.9 | 3.4 | | 3.0 | g | 3.9 |
| 40 | 120 | x | | 2.7 | 4.6 | c | | | |
| 41 | 120 | x | | 3.5 | 4.2 | c | | | |
| 42 | 120 | x | | 1.9 | 1.9 | | 2.1 | | 1.9 |
| 43 | 120 | x | | 2.3 | 3.2 | | 2.8 | c | |
| 44 | 119 | x | | 1.9 | 4.0 | | 4.4 | | 3.0 |
| 45 | 119 | x | | 2.3 | 4.6 | | 4.4 | | 3.5 |
| 46 | 119 | x | | 2.7 | 3.8 | | 3.0 | | 3.5 |
| 47 | 118 | x | | 1.9 | 2.6 | | 2.5 | | 2.6 |
| 48 | 118 | x | | 1.9 | 3.0 | | 2.6 | | 3.5 |
| 49 | 118 | | x | 4.7 | 5.7 | | 6.6 | C | |
| 50 | 117 | I | | 3.9 | 5.3 | | 5.7 | c | |
| 51 | 117 | x | | 3.5 | 5.7 | | 5.7 | c | |
| 52 | 117 | x | | 3.1 | 5.3 | C | | | |
| 53 | 117 | x | | 4.3 | 5.0 | | 4.4 | | 4.2 |
| 54 | 116 | x | | 3.9 | 5.1 | | 4.8 | | 5.3 |
| 55 | 116 | x | | 3.5 | 4.6 | | 4.8 | | 4.2 |
| 56 | 116 | x | | 4.7 | 4.8 | | 3.5 | | 3.5 |
| 57 | 116 | x | | 2.3 | 4.6 | g | 4.6 | | 4.6 |
| 58 | 116 | x | | 3.5 | 3.4 | | 3.5 | c | |
| 59 | 115 | x | | 1.9 | 3.8 | h | 3.5 | | 3.9 |
| 60 | 115 | x | | 2.7 | 3.8 | | 3.9 | | 3.9 |
| 61 | 115 | x | | 2.3 | 3.8 | | 3.0 | | 3.5 |
| 62 | 114 | x | | 3.9 | 3.8 | | 2.6 | | 2.5 |
| 63 | 114 | x | | 2.7 | 3.4 | | 3.5 | | 3.0 |
| 64 | 114 | x | | 2.7 | 5.3 | | 3.0 | | 3.0 |
| 65 | 113 | x | | 2.7 | 5.3 | | 3.9 | | 3.5 |

| 4 | | | | | |
|---|--|--|--|--|--|

| | | • | |
|----|------|---|--|
| | | | |
| -0 | | | |
| | Lib. | | |
| п | • | a | |
| | | | |
| | | | |
| | | | |
| | • | • | |
| | | | |

| | 4 | A | |
|--|---|---|---|
| | | w | a |
| | | | |

| ٠ | a | ** | * |
|---|----|----|---|
| | u | w | 4 |
| | | | |
| | ** | | 4 |
| | | | |
| | 4 | 3 | , |
| | 4 | | |
| | | | |

| à | * | - | |
|----|---|-----|---|
| | | | |
| | | 4 | |
| | | | |
| | • | ٠ | |
| | | 5 | |
| | | , | Æ |
| | s | v | |
| M. | | -74 | ø |

| | v | | |
|---|---|---|----|
| , | a | * | -3 |
| | ٨ | 4 | |
| | a | | ·p |
| • | 5 | • | už |
| | | | |
| w | | 3 | a |

| 9 | | 3 |
|---|---|---|
| ø | 7 | * |
| | | |

a u

Table 2. (cont.)

| | | Languag | ge Curricu | llum | Boys | | | |
|----------------------------|--|------------------|-----------------|---------------------------------|---------------------------------|-----------------------------------|-----|---------------------------|
| | Intelligence | Curricul | m Choice | | Average S | Sigma Sco | res | |
| Pupil | Quotient | Approved | Not Approved | IX | Х | XI | | XII |
| 66 67 68 69 70 | 113 113 112 112 113 112 | x x x x | | 3.1 3.9 4.7 3.9 | 5.0 5.3 4.8 5.1 6.1 | 4.4 6.6 g 4.6 c | g | 4.8 4.8 4.6 5.3 |
| 71 72 73 74 75 | 112 112 112 112 111 | x x x | x | 3.9 4.3 4.3 2.3 4.7 | 5.0 5.7 5.7 3.0 5.0 | e k 3.5 c 2.1 5.3 | | 2.5 2.5 3.9 |
| 76 77 78 79 80 | 110 110 109 109 108 | x x x x | | 3.3 3.5 3.9 3.1 4.3 | 5.3 5.0 4.6 5.3 5.3 | 5.0 4.8 4.6 4.8 | | 5.3 3.9 4.4 4.8 |
| 81 82 83 84 85 | 108 107 106 105 105 | x x | x | 2.7 3.5 4.7 4.7 5.0 | 5.0 5.7 5.7 5.7 5.3 | c 4.8 5.0 5.7 6.6 | c | 3.9 4.6 7.1 * |
| 86 87 88 89 90 | 104 104 102 98 96 | x x | x | 3.9 3.1 4.3 4.7 4.3 | 5.7 4.2 4.6 5.0 6.1 | h 5.8 4.4 5.0 5.0 5.0 | E | 6.2 * 3.9 3.5 6.2 * 5.3 * |

| a. | Left | schoo | lmoved from city |
|----|------|-------|------------------|
| b. | 11 | 17 | went to work |
| c. | 77 | 11 | entered private |
| | | | school |
| d. | 12 | 11 | entered Trade |
| | ~ | | School |
| е. | 11 | 11 | ill health |

f. Changed to Language Curriculum o. Joined armed service
g. " Certificate " * Spent 4 years in high school

h. Changed to Mathematics Curriculum

i. " " Academic " j. "

" Academic V "
" Business "

k. " " Business "

1. " " Office Training "

m. " " Cooperative H. S. and m. Trade



Table 2. (cont.)

| | | Languag | ge Curricu | lum | Girls | | | |
|-------|--------------|-----------|-----------------|-----|-----------|-----------|----|-----|
| | Intelligence | Curriculu | um Choice | | Average S | igma Scor | es | |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | | XII |
| 91 | 137 | x | | 2.3 | С | 3.9 | | 3.0 |
| 92 | 137 | x | | 3.9 | 3.8 | 4.8 | | 4.4 |
| 93 | 133 | x | | 1.9 | 3.0 | 3.5 | | 3.0 |
| 94 | 132 | x | | 3.9 | 5.0 | 4.4 | | 3.5 |
| 95 | 132 | x | | 1.9 | 2.6 | 2.5 | | 3.2 |
| 96 | 131 | x | | 2.3 | 3.4 | 3.5 | | 3.0 |
| 97 | 130 | x | | 3.1 | 3.8 | 4.2 | | 3.2 |
| 98 | 130 | x | | 1.9 | 3.8 | 3.5 | | 3.2 |
| 99 | 130 | x | | 1.9 | 2.6 | 3.5 | | 2.6 |
| 100 | 129 | x | | 2.3 | 2.6 | 2.8 | | 2.8 |
| 101 | 129 | x | | 2.7 | 3.4 | 3.2 | | 2.6 |
| 102 | 129 | x | | 3.9 | 5.0 | 5.3 | c | |
| 103 | 128 | x | | 3.5 | 5.3 | a | | |
| 104 | 127 | x | | 1.9 | 4.2 | g 4.4 | | 3.2 |
| 105 | 127 | x | | 3.5 | 5.3 | 5.7 | | 5.0 |
| 106 | 127 | I | | 3.5 | 4.2 | c | | |
| 107 | 127 | x | | 2.7 | 4.6 | 3.2 | | 3.9 |
| 108 | 127 | x | | 1.9 | 3.4 | 3.5 | | 3.5 |
| 109 | 126 | x | | 1.9 | 2.3 | 3.2 | | 3.5 |
| 110 | 126 | x | | 4.7 | 4.6 | g 5.3 | | 5.0 |
| 111 | 126 | x | | 3.9 | 5.0 | 4.8 | | 4.4 |
| 112 | 125 | x | | 1.9 | 2.5 | 2.5 | h | 2.1 |
| 113 | 125 | x | | 3.5 | 3.4 | 2.8 | | 3.2 |
| 114 | 125 | x | | 2.5 | 2.3 | 2.5 | | 1.7 |
| 115 | 125 | x | | 1.9 | 3.4 | c | | |
| 116 | 125 | x | | 1.9 | 2.3 | 2.5 | | 2.6 |
| 117 | 125 | x | | 4.3 | 5.3 | 3.9 | С | |
| 118 | 124 | x | | 3.9 | 3.8 | 4.6 | c | |
| 119 | 124 | x | | 3.9 | 5.3 | 4.4 | | 4.2 |
| 120 | 124 | x | | 2.3 | 4.2 | 3.2 | | 3.9 |
| 121 | 123 | x | | 2.7 | 3.0 | g 3.9 | | 4.6 |
| 122 | 123 | x | | 2.3 | 3.0 | a | | |
| 123 | 123 | x | | 3.1 | 4.6 | g 4.8 | | 2.5 |
| 124 | 122 | x | | 3.1 | 2.6 | 2.5 | | 3.5 |
| 125 | 122 | x | | 1.9 | 3.2 | a | | - |



Table 2. (cont.)

| | 1 | Languag | ge Curricu | llumGi | irls | | | |
|-------|--------------|-----------|-----------------|--------|----------|------------|----|-----|
| | Intelligence | Curriculu | m Choice | A | verage S | Sigma Scor | es | |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | | XII |
| 126 | 122 | x | | 1.9 | 4.2 | 4.4 | | 3.5 |
| 127 | 122 | x | | 3.5 | 3.8 | 3.5 | C | |
| 128 | 121 | x | | 1.9 | 3.0 | 3.2 | | 2.5 |
| 129 | 121 | x | | 1.9 | 3.8 | 3.9 | | 4.2 |
| 130 | 121 | x | | 1.9 | 2.8 | 1.7 | | 1.7 |
| 131 | 121 | x | | 3.5 | 4.6 | 4.8 | | 4.4 |
| 132 | 121 | I | ! ! | 2.3 | 4.6 | 3.5 | | 3.9 |
| 133 | 120 | x | | 1.9 | 2.6 | 2.6 | | 2.5 |
| 134 | 120 | x | | 3.5 | 4.2 | 3.5 | | 4.4 |
| 135 | 120 | x | | 2.3 | 3.8 | 2.6 | | 4.4 |
| 136 | 120 | x | | 3.1 | 4.2 | 4.4 | | 3.9 |
| 137 | 119 | x | | 2.3 | 4.6 | 2.8 | a | |
| 138 | 118 | x | | 3.5 | 5.0 | g 5.0 | | 5.0 |
| 139 | 118 | x | 1 | 4.5 | 4.6 | a | | |
| 140 | 118 | x | | 1.9 | 2.3 | 1.7 | | 2.1 |
| 141 | 118 | x | | 3.1 | 5.3 | 3.0 | | 4.8 |
| 142 | 118 | x | | 3.5 | 5.3 | c | | |
| 143 | 118 | x | | 3.1 | 5.3 | 3.0 | | 3.0 |
| 144 | 118 | x | | 3.9 | 5.0 | 3.9 | | 2.6 |
| 145 | 117 | | x | 4.3 | 5.3 | С | | |
| 146 | 117 | x | | 2.7 | 4.2 | 3.5 | | 4.2 |
| 147 | 117 | X | | 3.5 | 4.6 | g 4.8 | | 2.8 |
| 148 | 117 | x | | 3.9 | 5.3 | 5.3 | | 4.4 |
| 149 | 117 | x | 1 | 2.3 | 4.6 | 4.8 | | 3.5 |
| 150 | 117 | x | | 3.9 | 4.4 | 3.9 | | 4.6 |
| 151 | 116 | x | | 3.5 | 3.8 | 4.8 | | 3.9 |
| 152 | 116 | x | | 3.9 | 6.1 | 4.6 | | 5.0 |
| 153 | 116 | x | | 2.7 | 3.4 | 3.5 | С | |
| 154 | 116 | x | | 2.3 | 4.2 | 3.5 | | 5.7 |
| 155 | 116 | x | | 2.3 | 3.8 | 4.6 | | 3.2 |
| 156 | 115 | x | | 2.7 | 5.0 | 5.3 | g | 4.4 |
| 157 | 115 | x | | 2.7 | 3.0 | 3.9 | 0 | 3.5 |
| 158 | 115 | x | | 1.9 | 2.6 | 2.6 | | 2.6 |
| 159 | 115 | x | | 2.3 | 2.6 | 2.6 | a | |
| 160 | 115 | x | | 3.9 | 5.3 | 4.8 | - | 4.4 |



Table 2. (cont.)

| | | Languag | ge Curricu | lum | Girls | | | | |
|-------|--------------|-----------|-----------------|-----|---------|------|--------|-----|-------|
| | Intelligence | Curriculu | um Choice | | Average | Sigm | a Scor | res | |
| Pupil | Quotient | Approved | Not Approved | IX | X | | XI | | XII |
| 161 | 114 | x | | 3.5 | 5.3 | | 5.7 | | 4.2 |
| 162 | 114 | x | | 3.1 | 4.2 | | 3.5 | | 4.8 |
| 163 | 113 | x | | 4.7 | 5.3 | | 4.8 | | 4.4 |
| 164 | 113 | x | | 2.3 | 4.6 | c | | | 4.6 |
| 165 | 113 | x | | 3.1 | 4.2 | | 4.4 | | 3.9 |
| 166 | 112 | x | | 3.1 | 5.0 | | 4.4 | | 3.0 |
| 167 | 112 | x | | 3.1 | 3.8 | C | | | |
| 168 | 111 | x | | 1.9 | 3.4 | | 4.8 | | 5.3 |
| 169 | 110 | x | | 2.3 | 3.0 | | 3.5 | | 3.5 |
| 170 | 110 | x | | 3.1 | i 3.8 | е | | | 2.6 |
| 171 | 110 | x | | 3.1 | 4.2 | a | | | |
| 172 | 110 | x | | 4.7 | 5.3 | | 5.3 | | 3.9 |
| 173 | 110 | x | | 2.3 | 4.6 | | 5.3 | a | |
| 174 | 110 | x | | 3.9 | 5.3 | a | | | |
| 175 | 109 | x | | 3.1 | 4.6 | | 4.4 | | 3.5 |
| 176 | 108 | | x | 4.7 | 5.0 | | 5.3 | | 5.3 |
| 177 | 107 | x | | 3.9 | 5.0 | i | 3.2 | | 2.8 |
| 178 | 107 | X | | 3.9 | 5.3 | | 5.3 | | 3.5 |
| 179 | 105 | x | | 3.5 | 5.0 | | 3.9 | | 3.9 |
| 180 | 105 | x | | 3.9 | 6.1 | c | | | |
| 181 | 104 | x | | 3.5 | 5.7 | | 5.7 | | 3.9 |
| 182 | 102 | | x | 4.7 | 5.7 | | 5.0 | a | |
| 183 | 99 | | x | 3.9 | 5.7 | i | 3.9 | | 4.2 |
| 184 | 97 | x | | 4.7 | 6.5 | | 3.9 | | 5.3 * |
| 185 | 96 | x | | 5.0 | 4.6 | | 4.8 | | 5.0 |
| | | | | | | | | | |

| a. | Left | schoo | lmoved from city |
|----|------|-------|------------------|
| b. | 77 | 11 | went to work |
| c. | 99 | 44 | entered private |
| | | | school |
| d. | 88 | 11 | entered Trade |

e. " --ill health

f. Changed to Language Curriculum o. Joined armed service
g. " Certificate " * Spent 4 years in high school

School

h. Changed to Mathematics Curriculum

i. " " Academic "

j. " " Academic V " Business k.

1. " " Office Training "

" Cooperative H. S. and 11 m. Trade



Table 2. (cont.)

| | | Certific | ate Curri | culum | Boys | | | |
|-------|--------------|----------|-----------------|-------|----------|-----------|-----|---|
| | Intelligence | Curricul | m Choice | Av | rerage S | Sigma Sco | res | |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | XI | I |
| 186 | 140 | x | | 3.1 | 4.6 | 3.0 | 3. | 0 |
| 187 | 129 | x | | 4.3 | 5.7 | 4.4 | 5. | 3 |
| 188 | 129 | x | | 3.9 | 5.0 | c | | |
| 189 | 128 | x | | 3.9 | 5.0 | c | | |
| 190 | 127 | x | | 4.3 | 6.5 | i 5.7 | 4. | 2 |
| 191 | 127 | x | | 1.9 | 3.8 | 3.5 | 3. | 2 |
| 192 | 127 | I | | 3.9 | 5.0 | 5.7 | c | |
| 193 | 126 | x | | 3.3 | 4.2 | 4.8 | 3. | |
| 194 | 126 | x | | 3.1 | 5.7 | 4.4 | 3. | 5 |
| 195 | 126 | x | | 4.3 | 5.3 | 5.3 | 5. | 0 |
| 196 | 126 | x | | 4.7 | 5.3 | 5.3 | 5. | |
| 197 | 125 | x | | 3.9 | 4.2 | h 3.9 | 4. | |
| 198 | 124 | x | | 3.9 | 4.6 | 4.4 | 3. | 5 |
| 199 | 123 | | x | 6.0 | 5.7 | 5.3 | c | |
| 200 | 123 | x | | 3.1 | 5.7 | 4.4 | c | |
| 201 | 122 | x | | 2.7 | 5.7 | 5.0 | c | |
| 202 | 122 | x | | 3.1 | 4.8 | 4.4 | 4. | |
| 203 | 122 | x | | 3.1 | 3.8 | 4.4 | 3. | |
| 204 | 122 | x | | 3.5 | 4.6 | 3.9 | 3. | 2 |
| 205 | 122 | x | | 3.1 | 4.2 | a | | |
| 206 | 121 | x | | 4.3 | 5.0 | 4.8 | 4. | 2 |
| 207 | 121 | X | | 3.9 | 5.3 | c | | |
| 208 | 120 | | X | 5.4 | 5.3 | 5.7 | 5. | 7 |
| 209 | 120 | X | | 3.5 | 5.0 | a | | |
| 210 | 120 | x | | 3.1 | 4.2 | 5.3 | 5. | 3 |
| 211 | 120 | x | | 6.2 | 5.0 | 6.4 | c | |
| 212 | 120 | x | | 4.3 | 4.8 | 5.0 | 4. | 8 |
| 213 | 119 | x | | 4.7 | 6.9 | C | | |
| 214 | 119 | x | | 4.7 | 5.1 | 5.7 | 5. | 3 |
| 215 | 118 | x | | 3.5 | 4.6 | 5.7 | 4. | 8 |
| 216 | 118 | | x | 4.7 | 5.7 | 5.3 | 6. | |
| 217 | 118 | x | | 3.9 | 5.0 | 3.9 | 4. | 8 |
| 218 | 118 | x | | 3.5 | 4.2 | 4.4 | 3. | 0 |
| 219 | 118 | x | | 3.9 | 4.6 | 5.3 | 4. | 8 |
| 220 | 118 | x | | 3.9 | 5.7 | 5.0 | 5. | |



Table 2. (cont.)

| | | Certific | ate Curri | cu lum | Boys | | |
|-------|--------------|-----------|-----------------|--------|-------|-------|-------|
| | Intelligence | Curriculu | ım Choice | | es | | |
| Pupi1 | Quotient | Approved | Not Approved | IX | X | XI | XII |
| 221 | 117 | x | | 5.8 | 5.7 | 5.7 | a |
| 222 | 117 | x | | 2.3 | 2.3 | 2.8 | 2.8 |
| 223 | 117 | | x | 4.7 | 6.1 | 5.7 | 7.3 * |
| 224 | 117 | x | | 3.9 | 2.3 | k 3.5 | 4.2 |
| 225 | 117 | x | | 3.9 | 4.6 | 5.3 | 4.8 |
| 226 | 117 | | x | 5.0 | 4.2 | i 3.9 | 4.2 |
| 227 | 117 | x | | 4.7 | 3.4 | 3.9 | 4.8 |
| 228 | 116 | x | | 4.7 | 5.0 | 5.0 | 5.3 |
| 229 | 116 | x | | 3.9 | 4.6 | 4.4 | 4.6 |
| 230 | 116 | x | | 3.1 | 5.0 | 4.8 | 3.9 |
| 231 | 116 | x | | 4.3 | 4.6 | 5.3 | 4.8 |
| 232 | 116 | | x | 5.0 | 6.2 | C | |
| 233 | 115 | | x | 3.9 | 6.9 | i 3.5 | 3.5 |
| 234 | 115 | x | | 5.0 | 3.8 | i 5.7 | 4.6 |
| 235 | 115 | x | | 4.5 | 5.0 | 5.7 | 5.3 |
| 236 | 115 | | x | 5.4 | 6.1 | 5.7 | С |
| 237 | 115 | x | | 4.9 | 3.4 | 4.8 | 4.8 |
| 238 | 115 | x | | 5.0 | 6.1 | 5.3 | 5.3 * |
| 239 | 115 | x | | 1.9 | 3.0 | 3.9 | 4.4 |
| 240 | 115 | x | | 4.3 | 4.2 | 5.3 | 5.3 |
| 241 | 114 | x | | 5.8 | 6.1 | 4.4 | 4.6 * |
| 242 | 114 | | x | 4.7 | 5.0 | 5.3 | 4.8 * |
| 243 | 114 | x | | 4.3 | 5.3 | 4.8 | c |
| 244 | 114 | | x | 4.3 | 5.7 | 4.8 | 8.0 |
| 245 | 113 | x | | 4.3 | 5.0 | 6.0 | С |
| 246 | 113 | x | | 5.0 | 5.3 | 5.7 | a |
| 247 | 113 | . x | | 4.3 | 5.3 | i 5.3 | 4.4 |
| 248 | 113 | x | | 4.3 | 4.8 | C | |
| 249 | 112 | | x | 5.0 | i 5.1 | 5.3 | 5.0 * |
| 250 | 112 | | x | 5.0 | 6.5 | a | |
| 251 | 112 | | x | 5.2 | 3.4 | c | |
| 252 | 112 | x | | 5.0 | 5.3 | 5.3 | 4.8 |
| 253 | 111 | | x | 5.4 | 5.7 | a | |
| 254 | 110 | | x | 5.8 | 5.0 | a | |
| 255 | 110 | x | | 5.0 | 5.3 | 4.8 | 5.7 |



Table 2. (cont.)

| | | Certific | cate Curri | culum | Boys | | | | | |
|-------|--------------|----------|-----------------|-------|----------|-----|--------|----|-----|---|
| | Intelligence | Curricul | um Choice | Av | rerage S | igm | a Scor | es | | |
| Pupil | Quotient | Approved | Not Approved | IX | x | | XI | | XII | |
| 256 | 110 | x | | 3.3 | 5.3 | | 4.6 | | 5.7 | |
| 257 | 110 | x | | 5.0 | 5.0 | | 5.3 | | 5.3 | |
| 258 | 110 | x | | 3.9 | 5.0 | | 4.8 | | 4.4 | |
| 259 | 109 | x | | 3.5 | 5.0 | | 5.0 | a | | |
| 260 | 109 | | x | 5.8 | 6.1 | С | | | | |
| 261 | 109 | | x | 4.9 | 5.7 | | 6.6 | i | 3.9 | * |
| 262 | 109 | | x | 4.7 | 7.1 | | 5.3 | c | | |
| 263 | 109 | | x | 6.2 | 5.7 | i | 3.9 | | 3.9 | |
| 264 | 108 | x | | 4.7 | 6.6 | i | 6.2 | | 4.4 | * |
| 265 | 108 | x | | 5.0 | 4.8 | | 5.7 | | 7.1 | |
| 266 | 107 | | x | 5.4 | 6.7 | | 6.2 | | 5.3 | * |
| 267 | 107 | x | į | 4.3 | 4.8 | | 3.9 | | 4.4 | |
| 268 | 107 | x | | 3.9 | 5.3 | | 5.3 | | 4.2 | |
| 269 | 106 | x | | 4.3 | 5.7 | a | | | | |
| 270 | 106 | x | | 4.3 | 5.7 | i | 3.5 | | 4.6 | |
| 271 | 106 | x | | 5.0 | 5.1 | | 5.7 | | 3.9 | * |
| 272 | 106 | x | | 3.9 | 5.3 | | 4.8 | | 5.3 | |
| 273 | 105 | | x | 4.3 | 7.3 | | 6.4 | | 4.4 | |
| 274 | 105 | x | | 5.0 | 6.7 | c | | | | |
| 275 | 105 | x | | 4.7 | 5.1 | | 3.2 | | 4.2 | |
| 276 | 105 | x | | 5.2 | 5.7 | i | 5.8 | | 5.3 | |
| 277 | 104 | x | | 4.7 | 5.3 | 1 | 5.3 | С | | |
| 278 | 103 | x | | 4.3 | 5.0 | | 5.7 | | 5.3 | |
| 279 | 103 | | x | 5.8 | 5.7 | | 5.3 | i | 4.8 | |
| 280 | 103 | x | | 4.3 | 6.1 | | 5.3 | | 5.7 | |
| 281 | 101 | x | | 3.9 | 5.7 | | 5.3 | i | 5.3 | * |
| 282 | 101 | | x | 5.0 | 6.1 | | 5.7 | c | | |
| 283 | 100 | x | 1 | 3.9 | 5.0 | | 4.8 | | 3.5 | |
| 284 | 100 | | x | 3.3 | 6.1 | i | 5.7 | | 5.3 | |
| 285 | 99 | x | | 3.9 | 6.1 | | 4.4 | | 5.3 | |
| 286 | 99 | | x | 4.9 | 6.1 | | 5.3 | c | | |
| 287 | 99 | x | | 1.9 | 3.0 | | 2.1 | | 3.0 | |
| 288 | 99 | x | | 4.3 | 5.7 | a | | | | |
| 289 | 99 | | x | 5.8 | 5.1 | i | 4.8 | | 3.9 | |
| 290 | 98 | x | | 5.0 | 4.8 | | 5.0 | | 4.8 | |



Table 2. (cont.)

| | Certificate CurriculumBoys | | | | | | | | | | |
|--------------------------|----------------------------|--------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|--|--|
| | Intelligence | ligence Curriculum | | m Choice Averag | | igma Score | S | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | XII | | | | |
| 291 292 293 | 97 97 96 | x | x | 5.4 3.3 3.9 | 6.1 6.1 4.2 | 6.4 c 5.3 | 5.3 * 3.9 | | | | |
| 294 295 296 297 | 96 95 94 93 | x x x | | 4.3 3.9 3.9 3.9 | 4.2 5.1 5.0 5.0 | c 4.4 5.3 k 5.3 | 3.5 3.5 4.4 5.3 | | | | |

| a. | Left | school | lmoved from city | h. | Changed | to | Mathematics Curriculum |
|----|-------|--------|---------------------|----|---------|------|------------------------|
| b. | 11 | 11 | went to work | i. | Ħ | 11 | Academic " |
| c. | n | 11 | entered private | j. | 11 | 11 | Academic V * |
| | | | school | k. | 11 | 11 | Business " |
| d. | 11 | 11 | entered Trade | 1. | 11 | 99 | Office Training " |
| | | | School | m. | 11 | 11 | Cooperative H. S. and |
| е. | 11 | 11 | ill health | | | | Trade |
| f. | Chans | ed to | Language Curriculum | 0. | Joined | arme | ed service |

" Certificate " * Spent 4 years in high school

| | Certificate CurriculumGirls | | | | | | | | | | |
|-------|-----------------------------|----------|-----------------|----------------------|-----|-----|-----|--|--|--|--|
| | Intelligence | Curricul | um Choice | Average Sigma Scores | | | | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | XII | | | | |
| 298 | 133 | x | | 3.9 | 5.0 | 4.8 | 3.7 | | | | |
| 299 | 132 | x | | 1.9 | 4.6 | 3.7 | 3.5 | | | | |
| 300 | 128 | x | | 2.8 | 4.8 | 4.4 | 3.5 | | | | |
| 301 | 127 | x | | 4.3 | 4.6 | 4.8 | 4.6 | | | | |
| 302 | 127 | x | | 3.9 | 3.4 | 2.8 | 3.5 | | | | |
| 303 | 126 | x | | 1.9 | 3.8 | 2.6 | 3.0 | | | | |
| 304 | 126 | x | | 4.7 | 5.0 | 4.2 | 3.9 | | | | |
| 305 | 125 | x | | 1.9 | 3.0 | 3.0 | 3.9 | | | | |
| 306 | 125 | x | | 2.7 | 5.0 | 3.5 | 3.9 | | | | |
| 307 | 125 | x | | 2.7 | 4.2 | 3.5 | 3.9 | | | | |



Table 2. (cont.)

| | Intelligence | um Choice | Average Sigma Score | | | | | | |
|-------|--------------|-----------|---------------------|-----|-----|---|-----|---|-----|
| Pupil | Quotient | Approved | Not Approved | IX | X | | XI | | XII |
| 308 | 124 | x | | 3.9 | 4.6 | | 5.7 | | 4.6 |
| 309 | 124 | x | İ | 3.5 | 3.8 | | 5.3 | i | 2.1 |
| 310 | 124 | x | | 1.9 | 3.8 | | 3.5 | | 3.5 |
| 311 | 124 | x | | 3.1 | 4.2 | i | 2.5 | | 2.5 |
| 312 | 124 | x | | 3.1 | 3.4 | | 3.9 | | 3.5 |
| 313 | 122 | x | | 2.3 | 4.2 | | 3.5 | | 4.4 |
| 314 | 122 | x | | 1.9 | 2.3 | | 3.0 | | 2.6 |
| 315 | 121 | x | | 4.3 | 4.6 | | 4.6 | | 4.4 |
| 316 | 121 | x | | 3.9 | 3.8 | | 4.2 | | 2.8 |
| 317 | 121 | x | | 2.7 | 3.8 | | 3.5 | | 3.5 |
| 318 | 121 | x | | 4.7 | 4.2 | | 3.9 | | 5.0 |
| 319 | 120 | x | | 4.3 | 4.6 | | 4.6 | | 5.3 |
| 320 | 120 | x | | 3.5 | 4.2 | | 3.9 | C | |
| 321 | 120 | x · | | 4.1 | 5.7 | i | 3.5 | | 4.4 |
| 382 | 119 | x | | 3.1 | 4.2 | 8 | | | |
| 323 | 118 | x | | 4.7 | 4.6 | | 4.8 | | 3.9 |
| 324 | 118 | x | | 1.9 | 3.4 | | 3.5 | | 3.5 |
| 325 | 118 | x | | 5.0 | 4.8 | | 4.6 | | 5.8 |
| 326 | 118 | x | | 2.7 | 4.2 | | 3.5 | | 2.5 |
| 327 | 117 | x | 1 | 5.8 | 6.9 | | 5.7 | c | |
| 328 | 117 | x | | 3.9 | 6.5 | | 5.3 | | 5.8 |
| 329 | 117 | x | | 4.3 | 3.8 | | 3.9 | | 3.5 |
| 330 | 117 | x | | 2.3 | 4.2 | | 4.4 | | 3.9 |
| 331 | 117 | x | | 5.4 | 5.3 | | 5.8 | | 5.0 |
| 332 | 116 | x | | 4.3 | 4.8 | | 4.4 | | 5.3 |
| 333 | 116 | x | | 5.0 | 5.7 | | 3.5 | | 3.5 |
| 334 | 115 | x | | 5.4 | 3.8 | | 3.9 | | 5.3 |
| 335 | 115 | x | | 4.7 | 5.3 | | 4.8 | | 5.3 |
| 336 | 114 | x | | 3.1 | 5.3 | | 5.3 | a | |
| 337 | 114 | x | | 3.1 | 4.8 | | 3.9 | c | |
| 338 | 114 | x | | 4.3 | 4.2 | a | | | |
| 339 | 113 | x | | 4.7 | 4.2 | | 3.9 | | 3.5 |
| 340 | 113 | | x | 5.4 | 7.1 | | 6.0 | i | 4.6 |
| 341 | 113 | x | | 4.3 | 5.7 | a | | | |
| 342 | 113 | x | 1 | 3.9 | 5.0 | | 4.8 | | 3.9 |



Table 2. (cont.)

| | | Certifi | cate Curri | culum | -Girls | | | |
|-------|--------------|----------|-----------------|-------|----------|-----------|-----|-------|
| | Intelligence | Curricul | um Choice | A | verage S | Sigma Sco | res | |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | | XII |
| 343 | 113 | x | | 3.9 | 5.0 | 5.7 | е | |
| 344 | 112 | x | | 4.7 | 4.6 | i 3.9 | | 3.5 |
| 345 | 111 | x | | 4.7 | 5.1 | i 5.3 | | 3.2 |
| 346 | 111 | | x | 6.2 | 6.1 | c | | |
| 347 | 111 | | x | 5.0 | 5.7 | 6.2 | i | 4.6 |
| 348 | 111 | x | | 3.5 | 4.8 | 4.8 | | 3.5 |
| 349 | 110 | | x | 4.9 | 6.5 | 5.3 | a | |
| 350 | 110 | x | | 5.4 | 5.0 | 2.1 | | 3.9 |
| 351 | 110 | x | | 3.9 | 5.7 | 5.3 | | 5.3 |
| 352 | 109 | x | | 4.3 | 4.6 | 2.6 | | 3.5 |
| 353 | 109 | | x | 4.9 | 5.3 | i 3.2 | | 3.7 |
| 354 | 109 | x | | 4.7 | 6.1 | c | | |
| 355 | 108 | x | | 4.3 | 5.0 | i 3.5 | | 3.5 |
| 356 | 108 | | x | 5.0 | 4.6 | i 3.5 | | 3.5 |
| 357 | 108 | x | | 3.9 | 5.3 | a | | |
| 358 | 108 | x | | 3.5 | 5.3 | 5.3 | | 3.7 |
| 359 | 108 | x | | 3.5 | 4.6 | 4.8 | | 3.5 |
| 360 | 107 | x | | 4.9 | 5.0 | 4.8 | | 4.4 |
| 361 | 107 | | x | 4.3 | 5.7 | 6.2 | i | 5.0 |
| 362 | 107 | | x | 5.8 | 5.3 | 5.3 | | 5.3 |
| 363 | 107 | | x | 4.3 | 7.3 | c | | |
| 364 | 106 | x | | 4.7 | 5.3 | 3.5 | | 4.4 |
| 365 | 106 | | x | 4.9 | 5.1 | 6.6 | i | 4.4 |
| 366 | 105 | x | | 3.9 | 5.7 | 5.0 | i | 3.9 |
| 367 | 105 | x | | 5.4 | 6.5 | 4.4 | i | 3.9 3 |
| 368 | 104 | x | | 4.3 | 4.6 | 2.6 | | 4.4 |
| 369 | 104 | | x | 5.2 | 7.3 | c | | |
| 370 | 103 | x | | 4.7 | 5.7 | 4.8 | | 4.6 |
| 371 | 103 | | x | 5.0 | 7.3 | 6.4 | | 4.4 * |
| 372 | 103 | x | | 2.7 | 4.6 | 4.4 | | 3.9 |
| 373 | 103 | | x | 5.4 | 5.7 | 4.6 | e | |
| 374 | 102 | x | | 5.0 | 5.3 | 3.5 | | 5.3 |
| 375 | 102 | x | | 5.0 | 5.3 | 6.2 | | 4.6 |
| 376 | 102 | x | | 3.5 | 5.0 | 5.3 | | 3.0 |
| 377 | 102 | x | | 3.1 | 4.2 | 4.8 | | 3.9 |



Table 2. (cont.)

| Certificate CurriculumGirls | | | | | | | | | |
|-----------------------------|--------------|-------------------|-----------------|----------------------|------------|--------------|-----|--|--|
| | Intelligence | Curriculum Choice | | Average Sigma Scores | | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | XII | | |
| 378 379 | 101 99 | x | | 5.4 3.5 | 5.3 3.4 | 4.8 c | 3.5 | | |
| 380 | 99 | x | | 4.3 | 4.6 | 5.3 | 5.3 | | |
| 381 | 98 | | x | 4.7 | 5.7 | i 4.2 | 3.5 | | |
| 382 383 | 93 92 | x | | 4.7 | 5.7 5.3 | c 4.8 | 3.9 | | |

| a. | Left | school | lmoved from city | h. | Changed | to | Mathematics Curriculum |
|----|-------|--------|---------------------|----|----------|------|------------------------|
| b. | 11 | 11 | went to work | i. | 11 | 27 | Academic " |
| c. | 11 | 11 | entered private | j. | 11 | 11 | Academic V |
| | | | school | k. | 11 | 11 | Business " |
| d. | 11 | 11 | entered Trade | 1. | 22 | 77 | Office Training " |
| | | | School | m. | 11 | 11 | Cooperative H. S. and |
| е. | ** | 11 | ill health | | | | Trade |
| f. | Chang | ged to | Language Curriculum | 0. | Joined a | arme | ed service |
| | 11 | Ħ | Certificate " | * | Spent 4 | уе | ars in high school |

| | Intelligence | Curricul | um Choice | igma Scor | cores | | |
|---------------------------------|---------------------------------|------------------|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Pupil | | Approved | Not Approved | IX | х | XI | XII |
| 384 385 386 387 388 | 144 130 126 124 124 | x x x x | | 1.9 3.5 2.3 1.9 2.3 | 2.6 4.6 3.4 2.6 4.2 | 1.7 6.6 3.2 3.2 3.9 | 2.6 c 3.5 2.8 3.9 |
| 389 390 391 392 393 | 123 123 123 123 122 | X X X | x | 4.3 3.1 3.9 3.5 4.3 | 5.0 4.6 5.1 4.2 5.7 | g 3.9 4.6 5.3 5.3 | 4.6 4.8 5.3 6.6 4.6 |
| 394 395 396 397 | 122 121 121 121 | x x x | | 3.5 3.1 3.9 3.5 | 6.9 4.2 4.6 5.3 | c 4.2 5.3 5.3 | 4.6 3.9 f 3.5 |



Table 2. (cont.)

| | | Mathema | tics Curr | iculum- | -Boys | | | | | | |
|-------|--------------|----------|-----------------|---------|----------|--------------------|-----|---|-------|--|--|
| | Intelligence | Curricul | um Choice | A | verage S | erage Sigma Scores | | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | x | | XI | | XII | | |
| 398 | 120 | x | | 5.4 | 5.7 | | 6.2 | | 6.2 * | | |
| 399 | 120 | x | | 3.5 | 5.0 | | 3.5 | | 4.8 | | |
| 400 | 118 | x | | 2.9 | 4.2 | | 5.3 | | 3.9 | | |
| 401 | 117 | x | | 3.1 | 3.8 | | 4.6 | | 3.9 | | |
| 402 | 117 | x | | 3.9 | 5.0 | g | 6.4 | | 4.8 | | |
| 403 | 117 | x | | 3.9 | 4.6 | | 4.6 | | 4.2 | | |
| 404 | 117 | x | | 3.1 | 5.7 | g | 5.3 | | 3.9 | | |
| 405 | 117 | x | | 1.9 | 2.6 | | 2.6 | | 2.6 | | |
| 406 | 116 | x | | 3.5 | 5.0 | | 5.3 | g | 3.2 | | |
| 407 | 116 | x | | 3.9 | 4.2 | | 3.9 | | 3.0 | | |
| 408 | 116 | x | | 2.3 | 4.6 | С | | | | | |
| 409 | 114 | x | | 3.9 | 3.4 | f | 3.9 | | 5.3 | | |
| 410 | 114 | x | | 3.5 | 5.3 | | 3.9 | С | | | |
| 411 | 112 | x | | 4.3 | 4.6 | a | | | | | |
| 412 | 110 | x | | 3.9 | 5.3 | | 4.4 | | 4.8 | | |
| 413 | 109 | x | | 2.7 | 3.8 | | 3.9 | | 3.9 | | |
| 414 | 108 | x | | 3.1 | 4.6 | | 4.6 | | 5.8 | | |
| 415 | 108 | x | | 3.9 | 5.7 | i | 3.2 | | 2.8 | | |
| 416 | 108 | | x | 4.3 | 6.1 | c | | | | | |
| 417 | 103 | | x | 5.4 | 6.9 | а | | | | | |
| 418 | 100 | | x | 6.6 | 6.5 | g | 5.5 | | 5.3 * | | |
| 419 | 100 | x | | 3.5 | 5.7 | c | | | - | | |
| 420 | 98 | | x | 3.9 | 6.5 | i | 7.1 | | 6.2 * | | |
| 421 | 98 | | x | 4.7 | 6.9 | c | | | | | |

| a. | Left | school | 1moved from city |
|----|----------|--------|------------------|
| b. | 11 | 11 | went to work |
| C. | 2.5 | 22 | entered private |
| | | | school |
| d. | 11 | 2.2 | entered Trade |
| | | | School |
| e. | 27 | 22 | ill health |
| ۵ | Oh - m - | | T |

f. Changed to Language Curriculum o. Joined armed service
g. " Certificate " * Spent 4 years in high school

h. Changed to Mathematics Curriculum

i. " " Academic " j. " " Academic V

k. " " Business "
1. " " Office Training "

m. 11 " Cooperative H. S. and Trade



Table 2. (cont.)

| | Acad | lemic I, I | I, III, IV | Curri | culaBe | oys | | |
|-------|--------------|------------|-----------------|----------------------|--------|-------|-------|--|
| | Intelligence | Curricul | um Choice | Average Sigma Scores | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | XII | |
| 422 | 123 | x | | 4.3 | 5.7 | 5.7 | 5.3 | |
| 423 | 118 | x | | 3.5 | 4.6 | 5.1 | 4.8 | |
| 424 | 117 | x | | 4.7 | 4.6 | 6.4 | 4.6 | |
| 425 | 117 | x | | 4.7 | 3.8 | 4.6 | 4.2 | |
| 426 | 116 | x | | 1.9 | 1.9 | 1.9 | 2.6 | |
| 427 | 115 | x | | 4.3 | 5.5 | 5.1 | 4.6 | |
| 428 | 115 | x | | 3.1 | 4.2 | 3.0 | 3.9 | |
| 429 | 114 | x | | 4.7 | 5.3 | 5.3 | 4.8 | |
| 430 | 114 | | x | 5.2 | 5.0 | 5.7 | 6.0 * | |
| 431 | 114 | x | | 4.3 | 5.1 | 4.6 | 6.0 * | |
| 432 | 113 | x | | 6.2 | 5.0 | 5.7 | 3.8 | |
| 433 | 112 | x | | 3.9 | 4.2 | c | | |
| 434 | 112 | x | | 3.5 | 5.7 | 3.9 | 3.9 | |
| 435 | 111 | x | | 5.8 | 6.1 | a | | |
| 436 | 111 | x | | 5.8 | 5.7 | 5.3 | 5.3 | |
| 437 | 110 | x | | 3.1 | 4.2 | 5.3 | 5.7 | |
| 438 | 110 | x | | 4.7 | 6.1 | 4.6 | 6.7 * | |
| 439 | 109 | x | | 5.0 | 5.3 | а | | |
| 440 | 109 | x | | 4.7 | 4.2 | 5.3 | 5.3 | |
| 441 | 109 | | x | 6.2 | 5.0 | 5.3 | a | |
| 442 | 109 | x | | 5.2 | 6.9 | a | | |
| 443 | 109 | x | | 5.2 | 7.6 | 5.3 | 5.7 * | |
| 444 | 108 | I | | 5.4 | 5.3 | 5.7 | 5.7 | |
| 445 | 108 | x | | 5.4 | 4.2 | 6.1 | а | |
| 446 | 108 | x | | 5.8 | 5.3 | 5.7 | 5.3 | |
| 447 | 108 | | x | 4.7 | 6.1 | 6.6 | 5.3 * | |
| 448 | 108 | x | | 5.0 | 6.1 | 5.0 | 5.3 | |
| 449 | 107 | x | | 4.3 | 5.1 | 6.2 | 5.0 | |
| 450 | 106 | x | | 3.5 | 5.3 | 6.1 | 5.7 * | |
| 451 | 106 | x | | 3.9 | 5.7 | 5.0 | 5.0 | |
| 452 | 106 | x | | 3.1 | 4.6 | k 5.3 | 5.3 | |
| 453 | 105 | x | | 4.5 | 6.5 | 5.7 | 4.6 * | |
| 454 | 105 | x | | 4.3 | 5.1 | c | *** | |
| 455 | 105 | x | | 3.3 | 4.2 | 4.6 | 5.7 | |
| 456 | 104 | x | | 6.2 | 6.1 | b =-0 | 0.1 | |

. • . - 0 1, . ۵ . a 4 .

Table 2. (cont.)

| Academic I, II, IV CurriculaBoys | | | | | | | | | | | |
|----------------------------------|--------------|-------------------|-----------------|----------------------|-----|-----|-----|-----|-----|--|--|
| | Intelligence | Curriculum Choice | | Average Sigma Scores | | | | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | X | | XI | | XII | | |
| 457 | 103 | 103 x | 4.3 | .3 5.0 | | 5.7 | | 4.8 | | | |
| 458 | 103 | x | | 3.9 | 5.7 | | 5.7 | | 4.8 | | |
| 459 | 102 | x | | 4.3 | 6.5 | | 6.3 | | 5.1 | | |
| 460 | 102 | x | | 3.9 | 4.2 | С | | | 6.0 | | |
| 461 | 102 | x | | 3.9 | 5.7 | | 4.2 | | 5.3 | | |
| 462 | 101 | x | | 3.5 | 4.6 | k | 4.6 | | 5.3 | | |
| 463 | 101 | x | | 3.9 | 5.7 | | 5.3 | | 3.8 | | |
| 464 | 101 | | x | 3.9 | 5.7 | ъ | | | | | |
| 465 | 101 | | x | 4.7 | 6.1 | Ť | 5.3 | | 5.7 | | |
| 466 | 101 | x | - | 5.4 | 5.0 | | 5.3 | | 4.8 | | |
| 467 | 100 | I | | 4.7 | 5.7 | | 4.2 | | 4.8 | | |
| 468 | 100 | | x | 5.8 | 6.5 | | 4.2 | 0 | | | |
| 469 | 99 | x | | 5.0 | 5.3 | | 5.7 | | 5.7 | | |
| 470 | 99 | | x | 5.8 | 6.1 | | 5.7 | | 5.7 | | |
| 471 | 99 | x | | 4.7 | 6.1 | | 6.1 | | 5.0 | | |
| 472 | 99 | x | | 4.3 | 5.7 | | 6.2 | а | | | |
| 473 | 98 | x | | 4.3 | 5.3 | | 5.7 | | 5.3 | | |
| 474 | 98 | x | | 4.9 | 5.1 | | 4.8 | | 4.4 | | |
| 475 | 98 | x | | 5.2 | 5.7 | | 6.7 | | 5.3 | | |
| 476 | 97 | | x | 6.2 | 7.1 | Ъ | | | | | |
| 477 | 97 | x | | 5.2 | 6.1 | | 4.8 | a | | | |
| 478 | 96 | x | | 5.8 | 6.4 | g | 6.1 | k | 5.3 | | |
| 479 | 96 | x | | 4.3 | 4.2 | | 4.6 | | 5.0 | | |
| 480 | 96 | x | | 3.5 | 5.3 | | 5.3 | | 5.1 | | |
| 481 | 96 | x | | 2.7 | 5.0 | | 3.0 | | 4.4 | | |
| 482 | 95 | x | | 3.9 | 5.7 | | 5.3 | | 5.7 | | |
| 483 | 95 | x | | 4.7 | 4.6 | | 4.8 | | 5.3 | | |
| 484 | 94 | x | | 4.7 | 5.1 | | 4.6 | | 5.0 | | |
| 485 | 94 | | x | 4.7 | 5.0 | | 6.1 | | 5.0 | | |
| 486 | 94 | x | | 4.9 | 5.1 | | 5.3 | | 4.8 | | |
| 487 | 93 | x | | 3.5 | 4.6 | | 4.8 | | 4.6 | | |
| 488 | 93 | x | | 5.4 | 5.7 | g | 6.2 | i | 3.9 | | |
| 489 | 92 | x | | 4.7 | 5.1 | 0 | 5.3 | | 5.7 | | |
| 490 | 91 | x | | 3.5 | 5.3 | | 3.5 | c | 0.1 | | |
| 491 | 90 | x | | 4.7 | 6.1 | | 5.7 | | 5.1 | | |



Table 2. (cont.)

| | Academic I, II, III, IV CurriculaBoys | | | | | | | | | | | |
|---|---------------------------------------|------------------|-----------------|---|---|---|----------------------------------|--|--|--|--|--|
| Intelligence Curriculum Choice Average Sigma So | | | | | | | es | | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | XII | | | | | |
| 492 493 494 495 496 497 498 | 89 89 89 88 86 85 | x x x x | x x | 2.7 4.3 4.7 4.7 5.8 5.8 4.3 | 3.8 5.0 5.7 5.3 6.9 4.2 6.1 | 4.2 4.8 5.3 4.6 6.6 5.7 j 4.6 | 2.6 c 5.0 4.6 o b | | | | | |

| a. | Left | school | lmoved from city | h. | Changed | to | Mathematics | Curriculum |
|----|-------|--------|---------------------|----|----------|-----|---------------|------------|
| b. | 11 | 88 | went to work | i. | Ħ | 99 | Academic | Ħ |
| c. | 25 | 11 | entered private | j. | 11 | 11 | Academic V | n |
| | | | school | k. | 99 | 77 | Business | 17 |
| d. | 11 | 22 | entered Trade | 1. | tt | ** | Office Train | ning " |
| | | | School | m. | W | ** | Cooperative | H. S. and |
| е. | 11 | 11 | ill health | | | | Trade | |
| f. | Chang | ged to | Language Curriculum | 0. | Joined a | arm | ed service | |
| g. | tt | 99 | Certificate " | * | Spent 4 | уе | ars in high s | chool |

Academic I, II, III, IV Curricula--Girls

| | Intelligence | Curriculum Choice | | Average Sigma Scores | | | | | |
|-------|--------------|-------------------|-----------------|----------------------|-----|---|-----|-----|--|
| Pupil | Quotient | Approved | Not Approved | IX | X | | XI | XII | |
| 499 | 131 | x | | 3.9 | 4.6 | | 5.3 | 4.8 | |
| 500 | 130 | x | | 4.3 | 3.8 | | 3.0 | 3.5 | |
| 501 | 124 | x | | 3.9 | 3.8 | | 3.5 | 3.9 | |
| 502 | 121 | x | | 3.9 | 3.2 | g | 3.5 | 3.5 | |
| 503 | 120 | x | | 4.3 | 5.7 | | 5.3 | 4.8 | |
| 504 | 120 | x | | 3.1 | 4.2 | | 3.2 | 4.2 | |
| 505 | 120 | x | | 4.7 | 5.0 | c | | | |
| 506 | 119 | x | | 3.9 | 4.2 | | 5.0 | 3.9 | |
| 507 | 117 | x | | 3.9 | 4.2 | a | | | |
| 508 | 115 | x | | 2.7 | 5.3 | | 3.8 | 3.2 | |



Table 2. (cont.)

| | Acad | lemic I, I | I, III, IV | Curri | culaGi | rls | |
|-------|--------------|------------|-----------------|-------|-----------|------------|-------|
| | Intelligence | Curricul | um Choice | A | Lverage S | sigma Scor | es |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | XII |
| 509 | 115 | x | | 3.5 | 3.8 | 3.0 | 3.2 |
| 510 | 115 | x | | 4.3 | 4.2 | 3.5 | a |
| 511 | 114 | x | | 4.3 | 5.1 | a | |
| 512 | 114 | | x | 4.7 | 6.9 | 1 5.7 | 4.8 |
| 513 | 114 | x | | 5.0 | 4.8 | 4.4 | 4.4 |
| 514 | 114 | x | | 6.2 | 5.3 | 6.2 | 4.8 * |
| 515 | 114 | x | | 4.3 | 3.8 | 3.9 | 3.9 |
| 516 | 113 | x | | 4.7 | 4.8 | 3.5 | 4.6 |
| 517 | 113 | x | | 4.5 | 4.2 | 4.6 | 5.3 |
| 518 | 112 | x | | 2.7 | 5.3 | 1 5.0 | 4.6 |
| 519 | 112 | x | | 4.7 | 2.8 | 3.5 | 3.0 |
| 520 | 110 | x | | 5.0 | 5.0 | 3.8 | 5.7 |
| 521 | 110 | x | | 4.3 | 4.2 | 3.9 | 2.5 |
| 522 | 110 | x | | 4.3 | 5.3 | 4.4 | 4.6 |
| 523 | 110 | x | | 5.8 | 6.1 | 6.0 | 4.4 * |
| 524 | 109 | | x | 4.3 | 5.3 | 4.2 | 5.1 |
| 525 | 109 | I | | 5.4 | 5.3 | 5.0 | 5.3 |
| 526 | 109 | x | | 5.2 | 4.2 | 4.4 | 4.4 |
| 527 | 109 | x | | 3.9 | 4.2 | 5.0 | 4.8 |
| 528 | 108 | x | | 4.3 | 3.8 | 3.8 | 3.5 |
| 529 | 108 | x | | 5.8 | 6.1 | 4.8 | 4.6 * |
| 530 | 108 | x | | 3.9 | 5.0 | 4.8 | 3.9 |
| 531 | 108 | x | | 2.7 | 3.0 | 2.6 | 3.9 |
| 532 | 108 | X | | 5.8 | 6.9 | 6.4 | 5.3 * |
| 533 | 108 | x | | 4.9 | 4.8 | 5.3 | 4.4 |
| 534 | 108 | x | | 3.9 | 4.8 | c | |
| 535 | 107 | x | | 4.3 | 6.1 | 4.2 | 6.5 * |
| 536 | 107 | x | | 3.9 | 4.2 | 5.3 | 5.3 |
| 537 | 107 | x | | 4.7 | 5.1 | 6.2 | 3.9 * |
| 538 | 107 | x | | 5.2 | 5.1 | 5.3 | 5.3 |
| 539 | 107 | x | | 5.2 | 5.3 | 5.7 | 4.6 |
| 540 | 106 | x | | 3.5 | 5.3 | 6.1 | a |
| 541 | 106 | x | | 3.9 | 3.8 | 3.5 | 3.0 |
| 542 | 105 | x | | 4.7 | 5.0 | 5.3 | 4.8 |
| 543 | 105 | X | | 4.3 | 5.7 | 5.3 | a |

. 4 . . . ٠ . • . / 4

Table 2. (cont.)

| Academic I, II, IV CurriculaGirls | | | | | | | | | | | | |
|-----------------------------------|--------------|----------|-----------------|----------------------|-----|-------|-----|--|--|--|--|--|
| | Intelligence | Curricul | um Choice | Average Sigma Scores | | | | | | | | |
| Pupil | | Approved | Not Approved | IX | x | XI | XII | | | | | |
| 544 | 105 | | I | 4.3 | 6.9 | 5.3 | c | | | | | |
| 545 | 105 | x | | 4.3 | 4.2 | 4.8 | 4.2 | | | | | |
| 546 | 105 | x | | 6.2 | 4.6 | 3.5 | 4.6 | | | | | |
| 547 | 105 | x | | 5.2 | 5.7 | c | | | | | | |
| 548 | 105 | | x | 4.3 | 6.1 | b | | | | | | |
| 549 | 105 | x | | 5.2 | 6.1 | a | | | | | | |
| 550 | 104 | x | | 5.4 | 4.2 | 5.1 | 5.3 | | | | | |
| 551 | 104 | x | | 3.9 | 5.3 | 5.1 | 5.3 | | | | | |
| 552 | 104 | x | | 4.7 | 5.0 | 5.3 | c | | | | | |
| 553 | 104 | x | | 4.7 | 4.6 | 4.2 | 3.5 | | | | | |
| 554 | 104 | x | | 4.7 | 5.3 | c | | | | | | |
| 555 | 104 | x | | 4.3 | 5.0 | 5.0 | 4.6 | | | | | |
| 556 | 104 | x | | 4.7 | 5.3 | 4.4 | 4.2 | | | | | |
| 557 | 103 | x | | 5.8 | 5.3 | 5.3 | 5.7 | | | | | |
| 558 | 103 | x | | 5.4 | 5.3 | a | | | | | | |
| 559 | 103 | x | | 4.3 | 3.0 | 3.8 | 4.2 | | | | | |
| 560 | 103 | x | | 3.9 | 4.6 | 3.9 | 3.0 | | | | | |
| 561 | 103 | x | | 4.9 | 5.0 | 4.2 | 3.9 | | | | | |
| 562 | 102 | x | | 4.7 | 6.5 | 5.7 | 5.0 | | | | | |
| 563 | 102 | x | | 5.4 | 3.0 | 4.6 | 3.4 | | | | | |
| 564 | 102 | x | | 4.9 | 4.6 | 3.9 | 3.2 | | | | | |
| 565 | 102 | x | | 4.3 | 5.7 | 4.4 | 4.2 | | | | | |
| 566 | 101 | x | | 3.9 | 4.8 | 6.7 | 5.3 | | | | | |
| 567 | 101 | x | | 4.9 | 4.2 | 3.5 | 3.9 | | | | | |
| 568 | 101 | x | | 3.9 | 5.0 | 4.4 | 4.4 | | | | | |
| 569 | 101 | x | | 5.0 | 4.8 | 3.9 | 4.8 | | | | | |
| 570 | 101 | | x | 5.8 | 5.7 | a | | | | | | |
| 571 | 100 | | x | 4.7 | 5.7 | 5.7 | 4.6 | | | | | |
| 572 | 99 | | x | 5.0 | 7.1 | 6.1 | 4.8 | | | | | |
| 573 | 99 | | x | 5.0 | 6.5 | 5.7 | c | | | | | |
| 574 | 99 | | x | 5.0 | 5.7 | c | | | | | | |
| 575 | 98 | x | | 3.9 | 5.7 | 5.7 | 5.0 | | | | | |
| 576 | 98 | x | | 4.7 | 4.6 | 4.2 | 4.8 | | | | | |
| 577 | 98 | x | | 3.9 | 4.6 | 4.6 | 2.8 | | | | | |
| 578 | 98 | | x | 5.8 | 7.1 | j 5.3 | b | | | | | |



Table 2. (cont.)

| | Acad | lemic I, I | I, III, I | Curri | culaGi | irls | |
|-------|--------------|------------|-----------------|-------|----------|-----------|---------|
| | Intelligence | Curricul | um Choice | A | verage S | Sigma Sco | res |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | XII |
| 579 | 98 | x | | 3.1 | 4.2 | ь | |
| 580 | 98 | x | | 4.9 | 5.0 | 5.7 | 4.2 |
| 581 | 97 | x | | 3.5 | 5.0 | 4.6 | 5.3 |
| 582 | 97 | x | | 3.9 | 5.7 | j 4.8 | 4.8 |
| 583 | 97 | x | | 3.5 | 5.7 | 4.8 | 4.2 |
| 584 | 96 | x | | 3.9 | 6.1 | 5.7 | 4.8 * |
| 585 | 96 | | x | 5.8 | 6.5 | 6.5 | 1 5.7 * |
| 586 | 96 | x | | 4.3 | 5.0 | 5.3 | 4.6 |
| 587 | 96 | x | | 4.7 | 6.5 | 4.4 | 4.8 * |
| 588 | 95 | x | | 4.3 | 5.0 | 5.0 | 5.3 |
| 589 | 95 | x | | 4.7 | 3.0 | 3.5 | 3.9 |
| 590 | 95 | x | | 4.3 | 5.1 | 5.3 | 3.9 |
| 591 | 95 | | X | 5.8 | 5.1 | 7.1 | 5.3 |
| 592 | 94 | x | | 5.4 | 5.0 | 5.3 | 5.0 |
| 593 | 93 | x | | 3.5 | 4.4 | 8. | |
| 594 | 93 | x | | 5.4 | 5.7 | 5.3 | 5.0 |
| 595 | 93 | x | | 6.2 | 5.7 | 5.0 | 4.6 |
| 596 | 92 | x | | 4.3 | 5.0 | 3.5 | 3.5 |
| 597 | 91 | x | | 4.3 | 3.8 | 4.8 | 3.9 |
| 598 | 91 | | x | 5.0 | 5.7 | 5.3 | 6.4 * |
| 599 | 90 | x | | 3.9 | 5.1 | 3.9 | 3.5 |
| 600 | 88 | x | | 3.5 | 4.2 | 3.4 | 3.5 |
| 601 | 87 | x | | 4.7 | 5.3 | 5.3 | c |
| 602 | 86 | | x | 5.4 | 6.2 | e | |
| 603 | 85 | x | | 3.9 | 5.3 | 4.4 | 5.3 |

- a. Left school--moved from city h. Changed to Mathematics Curriculum b. " --went to work i. " Academic " c. " " --entered private j. " Academic V " school d. " --entered Trade School e. " --ill health
- f. Changed to Language Curriculum o. Joined armed service g. " Certificate " * Spent 4 years in high school

- k. " " Business "
 1. " " Office Training "
 m. " " Cooperative H. S. and Trade



Table 2. (cont.)

| | | Academi | c V Currie | u lumE | Boys | | | |
|-------|--------------|-----------|-----------------|--------|---------|-----------|-----|-----|
| | Intelligence | Curricul | um Choice | ΑV | erage S | Sigma Sco | res | |
| Pupil | Quoti ent | App roved | Not Approved | IX | x | XI | | XII |
| 604 | 109 | x | | 4.3 | 5.7 | 5.3 | | 5.0 |
| 605 | 109 | x | | 5.0 | 5.7 | Ъ | | |
| 606 | 107 | x | | 4.3 | 4.8 | 5.7 | m | |
| 607 | 106 | x | | 4.9 | 4.8 | 4.2 | b | |
| 608 | 105 | x | | 4.3 | 5.0 | 5.3 | | 5.7 |
| 609 | 103 | x | | 5.2 | 4.8 | 5.0 | | 5.0 |
| 610 | 99 | x | | 3.9 | 2.8 | 2.1 | | 4.4 |
| 611 | 97 | x | | 3.5 | 4.2 | 4.2 | | 4.6 |
| 612 | 97 | x | | 4.9 | 3.8 | 4.2 | | 4.6 |
| 613 | 97 | x | | 4.3 | 4.6 | 4.8 | m | |
| 614 | 96 | x | | 3.9 | 6.1 | 4.2 | m | |
| 615 | 94 | x | | 4.3 | 6.7 | Ъ | | |
| 616 | 94 | x | | 5.2 | 5.7 | d | | |
| 617 | 93 | x | | 3.5 | 5.3 | 5.0 | | 5.7 |
| 618 | 93 | x | | 3.9 | 4.2 | b | | |
| 619 | 91 | x | | 3.3 | 4.2 | 5.0 | | 4.6 |
| 620 | 90 | x | | 5.0 | 4.2 | 5.0 | | 5.0 |
| 621 | 90 | x | | 3.1 | 5.7 | 5.7 | | 5.0 |
| 622 | 89 | x | | 4.1 | 4.2 | 4.4 | m | |
| 623 | 88 | x | | 5.2 | 5.3 | 5.3 | | 5.3 |
| 624 | 88 | x | | 4.9 | 5.7 | Ъ | 1 | |
| 625 | 86 | x | | 2.9 | 3.8 | 3.9 | b | |
| 626 | 86 | x | | 4.3 | 3.8 | k 3.9 | | 4.6 |
| 627 | 85 | x | | 5.2 | 4.6 | 5.0 | | 5.0 |
| 628 | 84 | x | | 3.5 | 5.7 | 6.1 | 0 | |
| 629 | 84 | x | | 5.0 | 5.1 | 5.0 | m | |
| 630 | 84 | x | | 3.9 | 5.7 | Ъ | 1 | |
| 631 | 83 | x | | 3.9 | 5.0 | 6.0 | | 5.3 |
| 632 | 83 | x | | 5.8 | 6.9 | d | | |
| 633 | 81 | x | | 4.3 | 5.8 | b | | |
| 634 | 81 | x | | 4.7 | 5.7 | Ъ | | |
| 635 | 80 | x | | 5.4 | 5.7 | Ъ | | |
| 636 | 80 | x | | 4.9 | 5.3 | 5.3 | | 5.0 |
| 637 | 79 | | x | 5.8 | 6.7 | b | | 0.0 |
| 638 | 79 | x | | 4.3 | 5.0 | Ъ | | |



Table 2. (cont.)

| | | Academic | v Curric | ulum | Boys | | | |
|--------------------------|----------------------|-------------------|-----------------|--------------------------|--------------------------|--------------------------|---|------------|
| Pupil | Intelligence | Curriculum Choice | | Average Sigma Scores | | | | |
| | Quotient | Approved | Not Approved | IX | X | XI | | XII |
| 639 640 641 642 | 76 75 74 72 | X X X | | 5.8 5.0 4.7 4.7 | 6.1 6.1 5.3 5.7 | 5.7 5.3 5.7 5.3 | b | 5.3 5.7 |

- a. Left school--moved from city h. Changed to Mathematics Curriculum b. " " --went to work i. " " Academic " " C. " " --entered private j. " " Academic V " school k. " " Business "
- d. " " --entered Trade l. " " Office Training " School m. " " Cooperative H. S. and
- e. " " --ill health Trade f. Changed to Language Curriculum o. Joined armed service
 - * Spent 4 years in high school

Academic V Curriculum -- Girls Curriculum Choice Average Sigma Scores Intelligence Pupil Not Quotient Approved IX X XI IIX Approved 643 106 4.5 6.9 4.1 5.3 X 644 104 4.7 4.6 1 6.1 X 5.0 645 104 X 4.3 3.4 1 3.9 4.2 646 95 4.7 5.3 5.0 5.7 X 647 92 5.4 4.2 X 5.1 4.6 648 90 4.7 5.3 X 649 90 X 5.0 4.4 5.0 4.2 650 89 5.8 5.0 4.6 4.6 651 89 5.0 X 4.6 4.1 4.2 652 88 X 4.7 5.1 4.2 3.9 653 86 5.8 5.3 5.0 5.0 X 654 84 4.7 3.8 5.3 X 4.2 655 84 X 5.4 5.1 656 83 X 5.0 4.2 3.8 5.3 657 83 X 5.8 6.3 5.7



Table 2. (cont.)

| | | Academi | e V Curric | culum | Girls | | | | |
|-------|--------------|-------------------|-----------------|----------------------|-------|-----|---|-----|--|
| | Intelligence | Curriculum Choice | | Average Sigma Scores | | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | х | XI | | XII | |
| 658 | 82 | x | | 5.8 | 6.5 | 5.3 | ъ | | |
| 659 | 81 | x | | 4.3 | 5.0 | 4.6 | Ъ | | |
| 660 | 80 | x | | 5.0 | 5.7 | 4.4 | | 5.3 | |
| 661 | 79 | x | | 5.4 | 5.3 | 4.6 | | 5.0 | |
| 662 | 79 | x | | 6.2 | 6.9 | 4.1 | | 5.3 | |
| 663 | 78 | x | | 5.4 | 5.3 | 5.3 | | 4.6 | |
| 664 | 78 | x | | 5.8 | 5.3 | 4.6 | | 3.9 | |
| 665 | 7 8 | x | | 4.3 | 4.2 | a | | | |
| 666 | 78 | x | | 5.0 | 5.7 | Ъ | | | |
| 667 | 75 | x | | 4.7 | 3.8 | 3.9 | | 5.7 | |

| a. | Left | school | lmoved | from city | h. | Changed | to | Mathematics | Curriculum |
|----|-------|--------|----------|------------|----|----------|----|--------------|------------|
| b. | 11 | 77 | went t | o work | i. | 11 | 11 | Academic | 71 |
| c. | 77 | 11 | entere | d private | j. | 77 | 11 | Academic V | n |
| | | | scho | ol | k. | 11 | Ħ | Business | 11 |
| d. | 11 | 11 | entere | d Trade | 1. | 27 | 11 | Office Trai: | ning " |
| | | | Scho | ol | m. | 11 | 77 | Cooperative | H. S. and |
| e. | 77 | 11 | ill he | alth | | | | Trade | |
| f. | Chang | ged to | Language | Curriculum | 0. | Joined a | Im | ed service | |
| g. | 11 | 11 | Certific | ate " | * | Spent 4 | ye | ars in high | school |

| D | | Our and | culum | D |
|-------|------|--|---|------|
| 20101 | nage | and the first than the first the fir | (1) 1 1 1 1 1 1 1 1 1 | HOVE |
| | | | | |

| | Intelligence | Curricul | m Choice | Sigma Sco | a Scores | | |
|-------|--------------|-----------|-----------------|-----------|----------|-----|------|
| Pupil | Quotient | App roved | Not Approved | IX | X | XI | XII |
| 668 | 127 | x | | 2.1 | 4.2 | 3.5 | 4.6 |
| 669 | 127 | x | | 3.9 | 4.2 | 2.5 | 3.5 |
| 670 | 125 | x | | 1.9 | 3.8 | 3.9 | 5.3 |
| 671 | 124 | x | | 3.5 | 3.4 | 5.0 | 5.3 |
| 672 | 120 | x | | 4.3 | 4.2 | 2.8 | m |
| | | | | | | | 77.0 |
| 673 | 119 | x | | 3.1 | 4.6 | 3.9 | 4.8 |
| 674 | 117 | x | | 3.5 | 3.8 | 4.2 | 4.6 |
| 675 | 117 | x | | 3.5 | 5.3 | Ъ | |
| 676 | 116 | | x | 5.0 | 6.1 | 6.4 | ď |
| 677 | 116 | x | | 3.1 | 4.2 | 3.9 | 3.9 |



Table 2. (cont.)

| | | Busin | ess Curric | ulumI | Boys | | | |
|-------|--------------|----------|-----------------|----------------------|------|-----|---|-----|
| | Intelligence | Curricul | um Choice | Average Sigma Scores | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | | XII |
| 678 | 116 | x | | 2.3 | 2.3 | 3.5 | | 4.2 |
| 679 | 115 | x | | 1.9 | 2.3 | 2.1 | | 2.5 |
| 680 | 114 | x | | 3.9 | 5.0 | 5.0 | | 5.0 |
| 681 | 114 | x | | 3.1 | 3.8 | 4.8 | | 5.0 |
| 682 | 113 | x | | 3.5 | 3.4 | 3.9 | | 4.6 |
| 683 | 113 | x | | 4.3 | 4.2 | 3.9 | | 4.6 |
| 684 | 113 | x | | 3.9 | 5.7 | 5.0 | | 5.3 |
| 685 | 112 | x | | 4.3 | 5.0 | 4.2 | | 2.8 |
| 686 | 112 | x | | 4.3 | 5.0 | 5.3 | | 4.6 |
| 687 | 111 | x | | 4.3 | 6.1 | 4.2 | | 5.0 |
| 688 | 111 | x | | 4.7 | 5.0 | a | | |
| 689 | 111 | x | | 3.1 | 6.5 | 5.3 | | 5.7 |
| 690 | 110 | X | | 5.0 | 5.0 | 5.0 | | 5.3 |
| 691 | 110 | x | | 5.4 | 6.1 | 5.3 | d | |
| 692 | 110 | x | | 3.5 | 5.3 | 5.3 | | 5.3 |
| 693 | 110 | x | | 3.9 | 5.7 | 4.6 | | 5.3 |
| 694 | 109 | x | | 4.7 | 5.0 | 3.5 | Ъ | |
| 695 | 108 | x | | 4.3 | 5.3 | 4.6 | Ъ | |
| 696 | 108 | x | | 4.3 | 3.8 | 4.2 | | 4.6 |
| 697 | 107 | x | | 3.9 | 3.8 | 3.2 | | 3.7 |
| 698 | 107 | x | | 3.9 | 5.7 | 5.3 | | 5.3 |
| 699 | 107 | x | | 2.3 | 4.2 | 3.2 | | 3.5 |
| 700 | 106 | x | | 4.3 | 4.6 | 4.6 | | 4.4 |
| 701 | 105 | x | | 4.7 | 5.0 | 5.0 | | 5.0 |
| 702 | 105 | x | | 4.3 | 5.7 | 5.3 | | 4.2 |
| 703 | 104 | x | | 2.3 | 4.2 | 3.5 | ъ | |
| 704 | 104 | x | | 3.9 | 4.6 | 5.0 | | 5.0 |
| 705 | 104 | x | | 2.7 | 3.0 | 3.5 | | 2.8 |
| 706 | 103 | | x | 4.9 | 7.1 | 0 | | |
| 707 | 103 | x | | 3.5 | 6.5 | 5.3 | m | |
| 708 | 102 | x | | 4.3 | 4.6 | 5.0 | | 4.6 |
| 709 | 101 | x | | 3.9 | 4.2 | 3.2 | | 3.9 |
| 710 | 101 | x | | 2.7 | 3.8 | 4.2 | | 3.9 |
| 711 | 101 | x | | 3.5 | 6.1 | 5.3 | b | |
| 712 | 101 | x | | 3.9 | 5.3 | 5.0 | | 5.3 |

. . . 40 4 4

Table 2. (cont.)

| | | Busine | ess Curric | ulumE | Boys | | | | |
|-------------|--------------|----------|-----------------|-------|----------|------|--------|-----|-----|
| | Intelligence | Curricul | um Choice | Αv | verage S | Sigm | a Scor | res | |
| Pupil | Quotient | Approved | Not Approved | IX | X | | XI | | XII |
| 713 | 100 | x | | 4.7 | 4.2 | | 3.5 | | 3.7 |
| 714 | 99 | x | | 3.9 | 5.3 | | 5.3 | Ъ | |
| 715 | 99 | x | | 4.7 | 5.3 | a | | | |
| 716 | 99 | x | | 3.1 | 6.5 | | 5.3 | d | |
| 717 | 99 | x | | 4.7 | 5.3 | | 3.9 | m | |
| 718 | 97 | | x | 3.5 | 7.6 | d | | | |
| 719 | 96 | x | | 4.7 | 6.5 | | 5.7 | ъ | |
| 720 | 96 | x | | 3.9 | 5.3 | | 5.3 | 0 | |
| 721 | 96 | x | | 3.9 | 6.1 | | 4.4 | d | |
| 722 | 96 | x | | 4.3 | 5.7 | | 5.7 | b | |
| 723 | 95 | x | | 4.3 | 6.1 | ъ | | | |
| 724 | 94 | x | | 4.7 | 5.7 | Ъ | | | |
| 725 | 94 | I | | 3.5 | 5.3 | | 4.6 | | 5.7 |
| 726 | 94 | x | | 3.5 | 6.1 | | 5.3 | m | |
| 727 | 93 | | x | 5.4 | 6.5 | | 6.0 | | 5.3 |
| 72 8 | 93 | x | | 4.3 | 5.7 | Ъ | | | |
| 729 | 92 | x | | 3.5 | 4.6 | | 5.0 | | 4.4 |
| 730 | 91 | x | | 3.9 | 5.0 | | 5.0 | | 4.4 |
| 731 | 91 | x | | 3.9 | 5.3 | | 4.6 | | 5.0 |
| 732 | 91 | x | | 4.7 | 5.3 | | 5.3 | | 5.0 |
| 733 | 90 | x | | 3.9 | 5.3 | | 4.6 | | 4.6 |
| 734 | 89 | x | | 4.3 | 6.5 | | 5.0 | ъ | |
| 735 | 87 | x | | 5.0 | 5.7 | | 5.7 | | 5.0 |
| 736 | 85 | x | | 3.1 | 4.2 | | 3.5 | | 3.9 |
| 737 | 84 | | x | 3.3 | 5.9 | | 5.3 | | 5.3 |
| 738 | 84 | x | | 3.1 | 5.7 | | 4.6 | | 6.0 |
| 739 | 80 | | x | 3.5 | 5.7 | | 3.5 | | 4.6 |
| 740 | 79 | | x | 4.7 | 6.7 | j | 5.3 | ъ | 1.0 |

- a. Left school--moved from city
- b. " --went to work
- C. --entered private
- school
- d. " " --entered Trade School
- e. " --ill health
- f. Changed to Language Curriculum o. Joined armed service
- " " Certificate " * Spent 4 years in high school g.

- h. Changed to Mathematics Curriculum
 - i. " Academic
- 10 " Academic V j.
- k. " Business
- 1. " " Office Training "
- 12 m. Cooperative H. S. and Trade

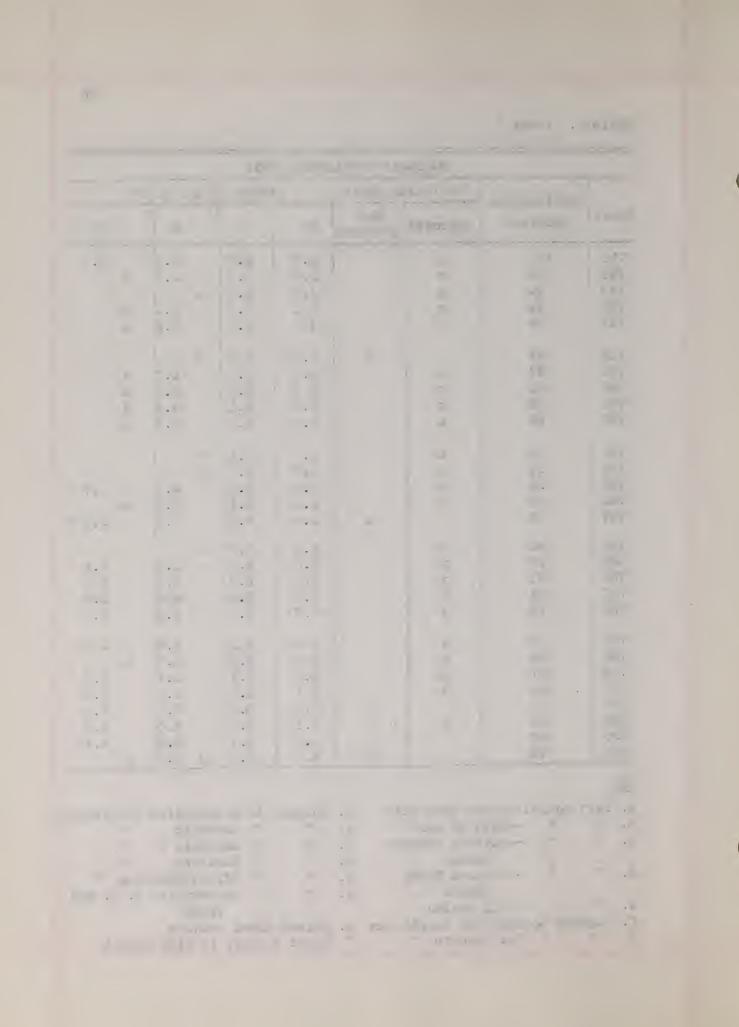


Table 2. (cont.)

| | | Office Tr | aining Cur | riculum | ıGirls | 3 | |
|-------|--------------|-----------|-----------------|---------|----------|------------|-----|
| | Intelligence | Curricul | um Choice | Av | rerage S | Sigma Scor | es |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | XII |
| 741 | 122 | x | | 2.7 | 5.3 | 5.3 | 5.3 |
| 742 | 121 | x | | 1.9 | 3.8 | 3.2 | 2.8 |
| 743 | 120 | x | | 3.5 | 3.4 | 3.2 | 3.2 |
| 744 | 120 | x | | 1.9 | 2.3 | 1.7 | 1.7 |
| 745 | 119 | x | | 3.1 | 5.0 | 3.9 | 3.5 |
| 746 | 118 | x | | 3.9 | 5.3 | 4.6 | 4.2 |
| 747 | 118 | x | | 1.9 | 2.6 | 3.2 | 3.5 |
| 748 | 115 | x | | 1.9 | 3.8 | 3.2 | 3.7 |
| 749 | 114 | x | | 3.5 | 3.8 | 3.2 | 3.2 |
| 750 | 114 | x | | 3.9 | 4.2 | 4.4 | 4.1 |
| 751 | 114 | x | | 3.5 | 4.6 | 3.9 | 4.1 |
| 752 | 114 | x | | 3.5 | 5.0 | 3.9 | 3.5 |
| 753 | 114 | x | | 3.1 | 3.4 | 3.9 | 4.8 |
| 754 | 112 | x | | 3.9 | 2.3 | 1.7 | 1.7 |
| 755 | 110 | x | | 3.9 | 4.6 | 4.2 | 3.5 |
| 756 | 110 | x | | 3.9 | 5.3 | 5.3 | 3.5 |
| 757 | 110 | x | | 1.9 | 2.6 | 2.8 | 1.9 |
| 758 | 110 | x | | 3.9 | 5.0 | 6.4 | 5.3 |
| 759 | 109 | x | | 3.1 | 3.0 | 4.1 | 2.3 |
| 760 | 109 | x | | 5.0 | 5.7 | 4.4 | 5.5 |
| 761 | 109 | x | | 3.9 | 5.0 | 5.3 | 5.3 |
| 762 | 109 | x | | 3.9 | 2.6 | 3.2 | 3.7 |
| 763 | 108 | x | | 3.5 | 3.8 | 4.6 | 4.4 |
| 764 | 108 | x | | 3.5 | 4.2 | a | |
| 765 | 107 | x | | 4.3 | 5.0 | 4.4 | 5.3 |
| 766 | 107 | x | | 3.9 | 4.2 | ъ | |
| 767 | 106 | x | | 2.7 | 3.8 | 4.6 | 5.3 |
| 768 | 106 | x | | 4.7 | 5.7 | 6.4 | Ъ |
| 769 | 105 | x | | 3.5 | 4.6 | 4.1 | 3.5 |
| 770 | 105 | x | | 3.1 | 5.0 | 4.4 | 3.7 |
| 771 | 105 | x | | 4.7 | 5.3 | 5.3 | Ъ |
| 772 | 105 | x | | 3.9 | 5.7 | 5.3 | 5.7 |
| 773 | 105 | x | | 3.9 | 4.2 | 5.0 | 4.6 |
| 774 | 104 | x | | 4.3 | 5.3 | 5.3 | Ъ |
| 775 | 104 | x | | 5.0 | 4.6 | 5.3 | 4.2 |

. . 4 1. . . 4 . . * -4 .

Table 2. (cont.)

| | C | ffice Tra | ining Curr | iculum- | Girls | | | |
|-------|--------------|-----------|-----------------|----------------------|-------|-------|-------|--|
| | Intelligence | Curricul | um Choice | Average Sigma Scores | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | XII | |
| 776 | 104 | | x | 4.7 | 4.8 | i 3.9 | 3.9 | |
| 777 | 104 | x | | 4.3 | 4.2 | a | | |
| 778 | 103 | x | | 3.5 | 3.4 | 4.4 | 5.0 | |
| 779 | 103 | x | | 3.5 | 6.1 | 5.3 | i 5.3 | |
| 780 | 103 | x | | 3.9 | 5.7 | 3.9 | 4.4 | |
| 781 | 103 | x | | 3.5 | 5.1 | 3.5 | 3.9 | |
| 782 | 103 | x | | 3.9 | 6.7 | 3.9 | 4.2 | |
| 783 | 102 | x | | 3.1 | 3.8 | 4.6 | 4.1 | |
| 784 | 102 | x | | 2.7 | 3.8 | 3.7 | 3.7 | |
| 785 | 102 | x | | 4.3 | 5.7 | 5.3 | 5.0 | |
| 786 | 102 | | I | 4.3 | 5.7 | i 5.7 | 5.3 | |
| 787 | 101 | x | | 4.3 | 4.2 | 4.1 | 3.5 | |
| 788 | 101 | x | | 5.2 | 4.2 | 4.2 | 4.4 | |
| 789 | 101 | x | | 3.5 | 5.0 | 4.2 | 4.6 | |
| 790 | 100 | x | | 3.9 | 4.2 | 5.0 | 4.4 | |
| 791 | 100 | x | | 4.3 | 3.8 | 4.6 | 3.7 | |
| 792 | 100 | x | | 4.7 | 6.1 | 5.7 | 5.3 | |
| 793 | 99 | x | | 3.5 | 5.0 | 4.4 | 4.1 | |
| 794 | 99 | x | | 4.3 | 4.4 | 4.1 | 4.6 | |
| 795 | 99 | x | | 4.7 | 4.6 | 5.0 | 4.4 | |
| 796 | 99 | x | | 4.7 | 4.2 | 5.0 | 3.5 | |
| 797 | 99 | x | | 4.3 | 3.4 | 5.0 | 4.6 | |
| 798 | 98 | x | | 3.1 | 2.3 | 4.2 | 2.8 | |
| 799 | 98 | x | | 3.5 | 5.1 | 5.3 | 5.3 | |
| 800 | 98 | x | | 3.5 | 5.7 | 4.4 | ъ | |
| 801 | 97 | x | | 2.7 | 4.2 | 5.0 | 5.0 | |
| 802 | 97 | x | | 3.5 | 4.2 | 4.1 | 5.3 | |
| 803 | 96 | x | | 3.5 | 4.2 | 4.6 | 5.0 | |
| 804 | 96 | x | | 3.5 | 5.3 | 4.6 | 5.0 | |
| 805 | 96 | x | | 2.7 | 3.2 | 4.2 | 4.6 | |
| 806 | 95 | x | | 5.0 | 5.3 | 5.3 | 4.4 | |
| 807 | 95 | x | | 3.1 | 6.7 | Ъ | | |
| 808 | 95 | x | | 3.3 | 4.6 | 3.7 | 4.4 | |
| 809 | 95 | | . x | 5.8 | 7.3 | 6.4 | 5.3 | |
| 810 | 94 | x | | 4.3 | 4.6 | 4.2 | 3.2 | |



Table 2. (cont.)

| Office Training CurriculumGirls | | | | | | | | | | | |
|---------------------------------|------------------------------------|------------------|-----------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|--|--|--|--|
| | Intelligence | Curricul | um Choice | ΓA | rerage | Sigma Sco | res | | | | |
| Pupil | Quotient | Approved | Not Approved | IX | X | XI | XII | | | | |
| 811 812 813 814 815 | 94 94 93 93 93 | x x x | x | 4.3 3.9 3.5 3.9 5.0 | 5.1 6.1 5.7 5.7 6.1 | 5.7 5.0 5.8 b | 4.6 4.1 4.6 4.1 | | | | |
| 816 817 818 819 820 | 92 91 91 91 91 | x x x x | | 4.3 3.5 5.0 3.1 4.7 | 6.1 4.6 5.7 4.8 3.8 | 5.3 5.3 5.3 4.8 5.0 | 4.6 5.0 b 4.6 5.3 | | | | |
| 821 822 823 824 825 | 88 88 87 86 85 | x | x x | 5.0 3.1 3.9 3.5 3.9 | 4.6 5.0 7.1 6.5 7.1 | 6.0 4.2 5.3 4.6 | 4.1 4.2 5.0 * 5.7 * | | | | |
| 826 827 828 829 830 | 84 8 2 79 78 75 | x x x | x | 5.0 3.5 4.3 5.2 2.7 | 5.0 5.3 5.0 6:3 4.8 | 5.0 4.8 5.3 a 4.1 | b 4.2 5.5 5.7 | | | | |

- a. Left school--moved from city h. Changed to Mathematics Curriculum b. " " --went to work C. 11 " --entered private school d. " " --entered Trade School e. " " --ill health
- f. Changed to Language Curriculum o. Joined armed service

- i. " " Academic "
 - j. " " Academic V
 - k. " " Business "
 - " Office Training " ** 1.
- m. " " Cooperative H. S. and Trade
- g. " " Certificate " * Spent 4 years in high school



One of the interesting aspects of this study is the large number of pupils who elected one of the college-preparatory curricula. A total of 421, or approximately 50 per cent of the total number, were enrolled in the language, certificate, and mathematics curricula (Column 7, Table 3). In addition 182 (22 per cent) elected academic I, II, or IV, all of which prepare for higher schools, making a total of 603 pupils (73 per cent) who planned to continue their education beyond high school. Only 64 pupils (8 per cent) elected academic V, which provides a general high-school course, while 73 boys (9 per cent) chose the business curriculum, and 90 girls (11 per cent) the office training curriculum.

Another rather startling feature is the large number of pupils who completed the high school course. Five hundred forty-four (65 per cent) were graduated from the same curriculum which they had elected in Grade IX; 99 (12 per cent) changed to another curriculum before graduation; 83 (10 per cent) left to enter private school; 52 (6 per cent) moved out of the city; and 56 (7 per cent) left because of ill health or a desire to go to work or enter the armed service. If we can assume that the 83 pupils who left to enter private school were probably graduated from high school, we have a total of 726 or 87 per cent who undoubtedly finished their high school course. This number does not include the 52 pupils who moved from the city, at least half of whom were probably graduated from senior high school.

Of the 99 pupils (Column 3, Table 3) who changed their curriculum in high school, 21 (21 per cent) were doing unsatisfactory work. The

The state of the s remaining 78 had evidently changed their plans as to their future careers.

Table 3. Numbers of Pupils Enrolled in Seven Curricula of Newton High School Who Remained in Original Curriculum, Changed to Another Curriculum, Left to Enter Private Schools, Moved from City, or Left for Other Reasons

| | | Total | | | | |
|-------------------|--|--|--|--------------|---------------------------------|---------------------|
| Curricula | Remained in Original Curriculum | Changed to Another Curriculum | Left to Enter Private Schools | from City | Left for Other Reasons | Numbers Enrolled |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| Language | 118 | 24 | 31 | 12 | 0 | 185 |
| Certificate | 116 | 33 | 32 | 16 | 1 | 198 |
| Mathematics | 20 | 9 | 7 | 2 | 0 | 38 |
| Acad. I,II,III,IV | 133 | 10 | 13 | 16 | 10 | 182 |
| Academic V | 32 | 11 | 0 | 1 | 20 | 64 |
| Business | 47 | 9 | 0 | 2 | 15 | 73 |
| Office Training | 74 | 3 | 0 | 3 | 10 | 90 |
| Total | 540 | 99 | 83 | 52 | 56 | 830 |

For purposes of comparison the pupils in each curriculum have been listed according to their intelligence quotients. (Tables 4 to 10 inclusive.)

Language Curriculum. -- This group included 90 boys and 96 girls, whose intelligence range was from 96 to 137. The curriculum choice of the top third was approved in every case; in the middle third, the choices of two boys and one girl were not approved; in the lowest third,

the choices of four boys and three girls were not approved, making a total of 10 (6 per cent) whose curriculum choice met with the disapproval of the advisers. Of these 10 pupils (six boys and four girls) four boys, three of whom were failing, left to enter private school; one was obliged to take an extra year in high school; and one, after changing to the certificate curriculum, also took an extra year. The four girls fared better, for one was graduated from the language curriculum, one whose work was of a passing grade, left to enter private school; one changed to the academic curriculum; and the fourth, who moved from the city, was doing passing work at the time of her withdrawal from school.

Table 4 shows that in Grades IX, X, and XII the marks of the girls in the top third were highest; those of the boys in the lowest third were poorest. With the exception of the top third in Grade XI, where the boys received the higher scores, the marks of the girls were better than those of the boys. There seems also to be a rather close correlation between the average marks and the intelligence quotients.

A decided drop in the marks appears in Grade X with a gradual rise in XI and XII. (Columns 6, 7, 8, and 9, Table 4.) There are several apparent reasons for this sharp decline. These pupils went from one building containing approximately 1000 pupils to a school consisting of three buildings and 2500 pupils. They were overwhelmed by the size of the school and confused by its complexity. They found themselves in classes with strange pupils and teachers. New activities were open to them, competition along all lines was keener, and before

Table 4. Numbers of Boys and Girls in the Language Curriculum Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII.

| Language | Number | Range | Number | Number | A | ks | | |
|-------------------|--------------|--------------------------------|----------|-----------------|-----|-----|-----|-----|
| Curriculum | of Pupils | of Intelligence Quotient | Approved | Not Approved | IX | X | XI | XII |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Top Third Boys | 30 | 123-133 | 30 | 0 | 2.9 | 4.0 | 3.6 | 3.4 |
| Girls | 32 | 123-137 | 32 | 0 | 2.8 | 3.7 | 3.7 | 3.0 |
| Middle Third Boys | 30 | 115-122 | . 28 | 2 | 3.3 | 4.4 | 4.1 | 3.8 |
| Girls | 32 | 116-123 | 31 | 1 | 2.9 | 4.2 | 3.7 | 3.7 |
| Lowest Third Boys | 30 | 96-115 | 26 | 4 | 3.7 | 5.0 | 4.5 | 4.2 |
| Girls | 31 | 96-116 | 28 | 3 | 3.3 | 4.6 | 4.4 | 3.9 |

they realized what was happening, their academic work had begun to suffer. As they grew more familiar with their surroundings, their marks improved until in Grade XII they were much higher than in X and XI, but still not so high as in Grade IX.

Certificate Curriculum. -- One hundred ninety-eight pupils (112 boys and 86 girls) comprised this group, whose intelligence quotients ranged from 92 to 140. Although this is also a college-preparatory group, we find that the curriculum choices of 42 pupils, or 21 per cent, were not approved, in contrast with 6 per cent in the language curriculum. Again the largest number of disapprovals (21) appears in the lowest third, with 17 in the middle group, and 4 in the top third.

. The state of the s and the state of t

Table 5. Numbers of Boys and Girls in the Certificate Curriculum Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII.

| Certificate | Number Range of of Intelligence | | Number | Number Not | Average Marks | | | |
|--------------|---------------------------------|----------|----------|---------------|---------------|-----|-----|-----|
| Curriculum | Pupils | Quotient | Approved | Approved | IX | X | XI | XII |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Top Third | | | | | | | | |
| Boys | 38 | 117-140 | 34 | 4 | 3.9 | 4.9 | 4.8 | 4.0 |
| Girls | 29 | 118-133 | 29 | 0 | 3.2 | 4.2 | 3.9 | 3.7 |
| Middle Third | | | | | | | | |
| Boys | 37 | 109-117 | 25 | 12 | 4.5 | 4.9 | 4.9 | 4.8 |
| Girls | 29 | 108-117 | 24 | 5 | 4.4 | 5.3 | 4.5 | 4.2 |
| Lowest Third | | | | | | | | |
| Boys | 37 | 93-109 | 25 | 12 | 4.4 | 5.6 | 5.0 | 4.6 |
| Girls | 2 8 | 92-108 | 19 | 9 | 4.4 | 5.3 | 4.8 | 4.1 |

Of the 28 boys who were not approved, one succeeded in doing satisfactory work in this curriculum; nine (three of whom were failing) left to enter private school; five changed to the academic curriculum; 10 were obliged to spend an extra year in high school; and three (one of whom was failing) moved from the city. One of the 14 girls who were not approved was successful in this curriculum; four (three of whom were failing) entered private school; five changed to the academic curriculum; three took an extra year in high school; and one, who was doing passing work, moved out of Newton.

A comparison of Tables 4 and 5 reveals that although there is little difference in the intelligence span of the two groups, the sigma scores of the pupils in the certificate curriculum are from half a point to a full point lower than those of the pupils in the language curriculum. This difference may be traced to the poorer study habits of the former group and to the fact that most of the certificate-curriculum pupils had varied outside interests. Many more than in the language curriculum became leaders in school activities. The same sudden drop in the Grade X marks with a gradual rise in XI and XII as was found in the language curriculum appears also in this curriculum.

Mathematics Curriculum. -- As this curriculum is intended for pupils who plan to enter technological colleges or schools of engineering, we usually expect to find it composed of students with high mentality. However, the intelligence-quotient range of the 38 boys who comprised this group was 92 to 124, lower than that of the other two college-preparatory groups. The curriculum choices of one pupil in the top third and five in the lowest third were not approved, making a total of six or 16 per cent. This percentage is larger than that of the language, but smaller than that of the certificate curriculum.

The history of the six boys whose curriculum choices were not approved was as follows: one did a passing grade of work in this curriculum; one who was doing satisfactory work moved out of the city; two who were failing left to enter private school; and two spent an extra year in high school.

The average marks, also, were lower than those of the language-curriculum pupils, but higher than those in the certificate curriculum. It is interesting, and perhaps significant, to note that the Grade XII mark of the middle third in which all pupils' choices were approved was higher than that of the top third, in which the choice of one

Table 6. Numbers of Boys in the Mathematics Curriculum Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII.

| Mathematics | Number | Range of | Number | Number | Average Marks | | | | |
|--------------|--------------|---------------------------|----------|-----------------|---------------|-----|-----|-----|--|
| | of Pupils | Intelligence Quotients | Approved | Not Approved | IX | х | XI | XII | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | |
| Top Third | | | | | | | | | |
| Boys | 13 | 121-124 | 12 | 1 | 3.1 | 4.4 | 4.3 | 4.2 | |
| Girls | 0 | | | | | | | | |
| Middle Third | | | | | | | | | |
| Boys | 13 | 114-121 | 13 | 0 | 3.4 | 4.5 | 4.7 | 4.1 | |
| Girls | 0 | | | | | | | | |
| Lowest Third | | | | | | | | | |
| Boys | 12 | 92-114 | 7 | 5 | 4.1 | 5.7 | 4.6 | 4.8 | |
| Girls | 0 | | | | | | | | |

pupil is not approved.

The general decline and rise of marks from Grades IX through XII is similar to that of the other two college-preparatory groups.

Academic I, II, III, and IV Curricula. This is the second largest group of pupils, comprising 77 boys and 105 girls, a total of 185. Their intelligence quotients range from 84 to 131, which is lower than any of the three college-preparatory groups. The total number of pupils whose curriculum choice was not approved was 25 (11 boys and 14 girls) or 14 per cent of the group enrollment. This was a greater percentage than that of the language but smaller than that of the certificate or mathematics curriculum. Since the

standards of this curriculum are not so high as those of the collegepreparatory curricula, one may well expect fewer non-approvals.

Table 7. Numbers of Boys and Girls in the Academic I, II, III, IV Gurricula, Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII.

| Academic I,II,III,IV | Number | Range of Intelligence | Number | Number | Average Marks | | | |
|-------------------------|--------|-----------------------|----------|--------|---------------|-----|-----|-----|
| Curricula | Pupils | Quotient | Approved | | IX | X | XI | XII |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Top Third | | | | | | | | |
| Boys | 26 | 108-123 | 23 | 3 | 4.6 | 5.1 | 5.1 | 4.5 |
| Cirls | 35 | 108-131 | 33 | 2 | 4.3 | 4.7 | 4.3 | 4.2 |
| Middle Third | | | | | | | | |
| Boys | 26 | 98-108 | 22 | 4 | 4.4 | 5.5 | 5.3 | 5.2 |
| Girls | 35 | 101-108 | 33 | 2 | 4.6 | 5.0 | 4.8 | 4.4 |
| Lowest Third | | | | | | | | |
| Boys | 25 | 84-98 | 21 | 4 | 4.5 | 5.3 | 5.1 | 4.8 |
| Girls | 35 | 85-101 | 25 | 10 | 4.6 | 5.4 | 5.0 | 4.6 |

In the case of the 11 boys whose choice was not approved, no one completed his course successfully; two changed to an easier curriculum; four took an extra year in high school; three who were failing left to go to work; one who was not passing moved from the city; and another who was not passing left to join the navy. Of the 14 girls two were successful in the curriculum of their choice; three, of whom two were failing, left to enter private school; three changed to an easier curriculum; four took an extra year in high school; one who had changed to academic V left to go to work; and one who was failing



withdrew because of ill health.

The marks, while not so high as those of the three previous curricula, show the same general tendency to drop in Grade X and rise in Grades XI and XII.

Academic V Curriculum. -- Sixty-four pupils, 39 boys and 25 girls, comprised this group. As indicated on page 12, this curriculum has developed into a sort of catchall for pupils who lack both the mental ability to carry on academic work and the mechanical ability to become a skilled worker. Table 2, pages 33-35, shows that only nine pupils (six boys and three girls) had an intelligence quotient over 100. The range of intelligence quotients was 75 to 109. Since the requirements of the curriculum are very low, it is not surprising that we find the curriculum choice of only one pupil disapproved. That boy was advised to enter the Trade School, but preferred to go to high school. Here he failed at the end of Grade X and left school to go to work.

Even in this curriculum we find the same pattern followed in the fall and rise of marks, except that with this group the average mark of both boys and girls in the top third is higher in Grade XI than in Grade XII. In the middle third this is true of the boys, and in the lowest group of the girls.

Business Curriculum. -- As stated in Chapter, page 4, this curriculum was intended primarily for boys who wish to enter the commercial world directly from high school. Eighty-three boys. with intelligence quotients ranging from 79 to 127 elected this curriculum in 1938, 1939, and 1940. The elective choice of seven (8 per cent)

Table 8. Numbers of Boys and Girls in the Academic V Curriculum,
Listed According to Their Intelligence Quotients; Numbers
Whose Curriculum Choice Was Approved or Not Approved by
Their Advisers; and Their Average Sigma Scores for Grades
IX, X, XI, and XII

| Academic V | Number | Range of | Number | Number | Average Marks | | | |
|--------------|---|----------|--------|--------|---------------|-----|-----|-----|
| Curriculum | of Intelligence Not Pupils Quotient Approved Approved | | IX | X | XI | XII | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Top Third | | | | | | | | |
| Boys | 13 | 94-109 | 13 | 0 | 4.4 | 4.9 | 4.5 | 4.8 |
| Girls | 9 | 89-106 | 9 | 0 | 4.9 | 4.9 | 4.6 | 4.7 |
| Middle Third | | | | | | | | |
| Boys | 13 | 84-93 | 13 | 0 | 4.1 | 4.7 | 4.9 | 5.0 |
| Girls | 8 | 81-89 | 8 | 0 | 5.1 | 5.1 | 4.9 | 4.6 |
| Lowest Third | | | | | | | | |
| Boys | 13 | 72-84 | 12 | 1 | 4.8 | 5.7 | 5.5 | 5.3 |
| Girls | 8 | 75-80 | 8 | 0 | 5.2 | 5.2 | 4.4 | 4.9 |

was not approved. One of these boys was in the top third, one in the middle third, and five in the lowest third. Of these seven boys, two were graduated from this curriculum; one spent an extra year in high school; two changed to Trade School after failing in the business curriculum; one changed to academic V and then left to go to work; and one who was failing left to enter a C.C.C. Camp.

In this group, also, the marks show a decided drop in Grade X, but in the top and lowest third, the marks are higher in Grade XI than in Grade XII. In this respect they are comparable to the academic V curriculum.



Table 9. Numbers of Boys in the Business Curriculum, Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII.

| Business | Number | Range of Number Number | | | | Average Marks | | | |
|--------------|--------------|--------------------------|----------|-----------------|-----|---------------|-----|-----|--|
| Curriculum | of Pupils | Intelligence Quotient | Approved | Not Approved | IX | Х | XI | XII | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | |
| Top Third | | | | | | | | | |
| Boys | 25 | 110-127 | 24 | 1 | 3.2 | 4.5 | 4.3 | 4.5 | |
| Girls | 0 | | | | | | | | |
| Middle Third | | | | | | | | | |
| Boys | 24 | 99-110 | 23 | 1 | 3.7 | 4.9 | 4.4 | 4.3 | |
| Girls | 0 | | | | | | | | |
| Lowest Third | | | | | | | | | |
| Boys | 24 | 79-99 | 19 | 5 | 4.0 | 5.7 | 4.9 | 5.0 | |
| Girls | 0 | | | | | | | | |

Office Training Curriculum. -- The 60 girls who comprise this group have an intelligence quotient range from 85 to 122. The curriculum choice of every pupil in the top third was approved by the advisers, but two in the middle third and six in the lowest third were not approved. Three of these eight girls, however, completed their work satisfactorily; one was obliged to take an extra year in high school, two were changed to the academic curriculum, one who had been advised to take academic V was failing when she moved out of the city; and another who was failing withdrew from school to go to work.

The marks of these girls are higher than those of the boys in the business curriculum. The general pattern, however, is more Table 10. Numbers of Girls in the Office Training Curriculum, Listed According to Their Intelligence Quotients; Numbers Whose Curriculum Choice Was Approved or Not Approved by Their Advisers; and Their Average Sigma Scores for Grades IX, X, XI, and XII.

| | Number | | Number | Number | Average Ma | | | arks | |
|---------------------|--------------|--------------------------|----------|-----------------|------------|-----|-----|------|--|
| Training Curriculum | of Pupils | Intelligence Quotient | Approved | Not Approved | IX | X | XI | XII | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | |
| Top Third | | | | | | | | | |
| Boys | 0 | | | | | | | | |
| Girls | 30 | 105-122 | 30 | 0 | 3.3 | 4.1 | 4.0 | 3.7 | |
| Middle Third | | | | | | | | | |
| Boys | 0 | | | | | | | | |
| Girls | 30 | 98-105 | 28 | 2 | 4.0 | 4.7 | 4.6 | 4.4 | |
| Lowest Third | | | | | | | | | |
| Boys | 0 | | | | | | | | |
| Girls | 30 | 75-97 | 24 | 6 | 3.9 | 5.3 | 4.9 | 4.7 | |

nearly like that of the college-preparatory groups in that there is a sharp drop in Grade X, followed by a steady rise in Grades XI and XII.

Before any conclusion can be drawn as to the accuracy of the advisers' judgment in approving or disapproving the curriculum choices, it is necessary to investigate and compare the high-school history of both the approved and non-approved pupils.

In computing the success or non-success of the pupils listed in the following tables (11 and 12), a child was considered successful if he was graduated in three years from the curriculum of his choice or an equally difficult curriculum, or if he was receiving a passing



mark when he withdrew from high school to enter private school or for any other reason. Many pupils who take an extra year to complete their senior-high-school course do so on the recommendation of their ninth-grade adviser. However, since this advice is usually given because of weak scholastic standing in the junior high school, those pupils who spent four years in the senior high school are listed as unsuccessful.

Table 11. Numbers of Approved Pupils in Each Curriculum Successful in High School and Numbers Not Successful.

| | Numbers | | | | |
|-------------------------|------------|-------------------|-------|--|--|
| Curricula | Successful | Not Successful | Total | | |
| (1) | (2) | (3) | (4) | | |
| Language | 171 | 4 | 175 | | |
| Certificate | 142 | 14 | 156 | | |
| Mathematics | 28 | 4 | 32 | | |
| Academic I, II, III, IV | 123 | 34 | 157 | | |
| Academic V | 59 | 4 | 63 | | |
| Business | 63 | 3 | 66 | | |
| Office Training | 7 8 | 4 | 82 | | |
| Total | 664 | 67 | 731 | | |

Of the 67 approved pupils who were unsuccessful, 34 spent an extra year in high school; nine changed to an easier curriculum; seven were failing when they left to enter private school, six when they moved from the city, 10 when they withdrew to go to work, and

one when he left to go to Trade School.

However, 91 per cent of those pupils whose curriculum choices were approved by their advisers were successful in their high-school life.

Table 12. Numbers of Non-Approved Pupils in Each Curriculum Successful in High School and Numbers Not Successful.

| | Numbers | | | | |
|-------------------------|------------|-------------------|-------|--|--|
| Curricula | Successful | Not Successful | Total | | |
| (1) | (2) | (3) | (4) | | |
| Language | 4 | 6 | 10 | | |
| Certificate | 12 | 30 | 42 | | |
| Mathematics | 2 | 4 | 6 | | |
| Academic I, II, III, IV | 3 | 22 | 25 | | |
| Academic V | 0 | 1 | 1 | | |
| Business | 2 | 5 | 7 | | |
| Office Training | 3 | 5 | 8 | | |
| Total | 26 | 73 | 99 | | |

Of the 73 non-approved pupils who were unsuccessful, 27 spent an extra year in high school; 18 changed to an easier curriculum; 13 were failing when they withdrew to enter private school, three when they moved from the city, six when they left to go to work, three when they changed to Trade School, two when they joined the Navy and a C.C.C. Camp, and one when she was forced to leave because of ill health.

Therefore, 74 per cent of the non-approved were unsuccessful in the Newton High School.

The final chapter of this thesis will include a summary of the findings of the study, the conclusions that may be drawn from them, and a list of recommended suggestions.



CHAPTER III

SUMMARY AND RECOMMENDATIONS

In a study entitled Education in Forty-Eight States, the Advisory Committee on Education makes this statement. "Out of every 1000 pupils who entered the high school in 1930-31, only 491 were graduated four years later. It would appear that the modern high school holds somewhat less than one half of its entering students until the completion of the course. This is a highly wasteful use of valuable human resources."

While the above statement refers to the country as a whole, and Newton is, in many respects, a rather favored city, it is, nevertheless, gratifying to note that approximately 87 per cent of the pupils in this study were graduated from the Newton High School or some secondary private school. This is a conservative percentage as it does not include the 52 pupils who moved from the city, at least half of whom probably completed their high school course (Chapter II, page 41).

In the selection of a curriculum it is interesting to note the large number of pupils who chose college-preparatory curricula. Approximately 50 per cent of the total number were enrolled in curricula which prepared for colleges requiring either the College Board

^{1/}Payson Smith, et al., Education in the Forty-Eight States, The Advisory Committee on Education Staff Study No. I, Washington, D. C., 1939, p. 31.

examinations or certification. In addition, another 22 per cent selected subjects which prepare for entrance to junior colleges, teachers colleges, kindergarten-training schools, and business colleges. This seems too large a percentage, especially in the Weeks School, where at least one half of the pupils come from homes with moderate or low incomes. However, most parents, including both the college graduates and those who feel they have been denied a college education, insist that their children must prepare for college and are willing to make great sacrifices, if necessary, in order to attain that end. For that reason the enrollments in the business and office training curricula are too small, but even in the former many boys are enrolled who should have been sent to one of the trade schools. However, the experiences of the present war may teach parents the value of a training in industrial arts.

Tables 6-10 seem to indicate a general correlation between the marks and the intelligence quotients. However, since this is an average score and so many factors other than intelligence quotient enter into the question of achievement, it is unsafe to attempt to draw a general conclusion from these data.

In Table 2 it is interesting to note such individual cases as a girl with an intelligence quotient of 96 who completed the language curriculum successfully in three years, while a boy, whose intelligence quotient was 127, changed to the academic curriculum because he was failing in the certificate curriculum. The fact that there are curricula in the Newton High School--academic, business, and office

training--in which boys and girls with intelligence quotients in the 80's and even the 70's can meet with success indicates that the school is planning its program to supply the vital needs of all its pupils.

Although in advising pupils about their curriculum choices in the senior high school, the junior-high-school teachers lay much more emphasis upon past academic achievement than upon the intelligence quotient, Tables 6-10 show that the largest number of disapprovals fall in the middle and lowest thirds of the pupils grouped in terms of intelligence quotients. Table 2, also, bears out the fact that in most cases, especially in the college-preparatory groups, the pupils in the lower intelligence-quotient ranges receive lower marks than those in the upper third of the list.

The general pattern of a sudden drop in the Grade X marks with a gradual rise in Grades XI and XII has been noted in all the curricula. The drop in Grade X was partially explained by the writer in Chapter II, pages 43-44, but the fact that the Grade IX marks seldom recur in Grade XII, where conditions are very similar to those in the ninth grade, seems to call for a further investigation. Part of the difficulty may be traced to the difference in the marking systems used by the junior-high and senior-high schools, and the writer hopes that a study of this question will soon be undertaken by the Newton school authorities.

On the whole, the junior-high-school teachers seem to have shown good judgment in the advice given to their pupils concerning curriculum courses, since 91 per cent of the approved pupils were successful in

their high-school life, and 74 per cent of the non-approved group were not successful. Apparently the 26 per cent in the latter group who were successful, met with a needed challenge in the high school. A study of these individual cases to determine the reason for their success might prove profitable as well as interesting.

In the following summary the writer attempts to answer the questions raised by her in Chapter I, page 5.

- 1. Six hundred ninety, or 85 per cent of the Weeks pupils promoted to the Newton High School in 1938, 1939, and 1940 succeeded in maintaining a passing mark or better in the curriculum selected in Grade IX or an equally difficult curriculum.
- 2. Ninety-one per cent of the pupils whose curriculum choice was approved by the ninth-grade teachers were successful in high school. Seventy-four per cent of those whose curriculum choice was not approved were not successful.
- 3. A sudden drop in marks was noted between Grades IX and X followed by a gradual rise in XI and XII, but failing to reach the level of Grade IX.
- 4. An apparent correlation was noted between the average sigma scores and the average intelligence quotients.

Recommendations .--

1. That the question of adopting a uniform marking system in Newton be considered by the Superintendent of Schools and the Newton Teachers Council.

- 2. That a study of the marks of Grades IX, X, XI, and XII be undertaken by a committee consisting of junior-high and senior-high-school teachers to determine the cause of the decline of marks in the senior high school.
- 3. That Newton parents be educated as to the importance of selecting curricula suited to the needs and capacities of their children.

BIBLIOGRAPHY

- "Articulation between Junior and Senior High Schools," New York (City)
 Junior High School Principals Association Committee on Articulation between the Junior and Senior High Schools, High Points
 (December, 1941), 23: 6-9.
- Benson, Viola E., "The Intelligence and Later Scholastic Success of Sixth-Grade Pupils," School and Society (February 7, 1942), 55: 163-167.
- Billett, Roy O., Fundamentals of Secondary-School Teaching. Houghton Mifflin Company, Boston, 1940.
- Billhartz, William H., Jr. and Percival W. Hutson, "Determining College Ability during Junior-High-School Years," School and Society (April 26, 1941), 53: 547-552.
- Brewer, W. M., "Articulation of Junior and Senior High Schools," Peabody Journal of Education (September, 1936), 14: 86-92.
- Carey, Katherine L., "Articulating the Junior High with Other Units,"

 <u>California Journal of Secondary Education</u> (December, 1941),

 16: 476-479.
- Geduldig, Abraham, "The Junior High School Student in the Senior High School," <u>High Points</u> (April, 1940), 22: 22-23.
- Herbst, R. L., "Can Success in High School Be Predicted at the End of Grade IX?" <u>School Review</u> (September, 1937), 45: 508-515.
- Jones, Dorothy, "Program of Articulation in the Highland Park Schools,"
 American School Board Journal (July, 1941), 103: 56.
- Smith, Payson, et al., Education in the Forty-Eight States. The Advisory Committee on Education Staff Study No. I, Washington, D. C., 1939.





ICOGRUESE SISSES

IN THE STREET PARTY.

